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VAX-11 Bliss-32 V4.0-742 [ACLEDT.SRC]AEDSUBR.B32;1

```
MODULE AED$SUBR (
                        LANGUAGE (BLISS32),
IDENT = 'V04-000'
```

BEGIN

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FACILITY: Miscellaneous utilities

ABSTRACT:

!++

This module contains miscellaneous routines utilized by the ACL editor.

ENVIRONMENT:

VAX/VMS operating system, user mode utilities.

CREATION DATE: 27-Dec-1982 11:45 AUTHOR: L. Mark Pilant

MODIFIED BY:

LMP0213 L. Mark Pilant, 24-Mar-1984 12 Add support for locking and unlocking the object's ACL. V03-009 LMP0213 24-Mar-1984 12:23

L. Mark Pilant, 15-Feb-1984 9:37 Remove the ACL twiddling in AED_UPDATEACL. The actual ACL V03-008 LMP0193 modification takes place when the session is ended.

15-Dec-1983 9:52 V03-007 LMP0181 L. Mark Pilant.

AED\$SUBR V04-000	B 10 15-Sep-1984 23:59:16
: 58 : 59	0058 1 ! Change code to use \$CHANGE_ACL instead of the ACP to do 0059 1 ! ACL twiddling.
58 59 60 61 63 64 65 66	0060 1 ! 0061 1 : V03-006 LMP0172
65	0065 1 ! V03-005 LMP0103 L. Mark Pilant, 28-Apr-1983 9:45
68	0067 1 0068 1 003-004 LMP0100 L. Mark Pilant, 14-Apr-1983 12:11 0069 1 Add the \$FORMAT_ACL and \$PARSE_ACL system services.
68 69 70 71 72 73 74 75 76	0071 1 ! V03-003 LMP0080 L. Mark Pilant, 16-Feb-1983 15:48 0072 1 ! Include some additional screen positioning to get around 0073 1 ! some problems with the new screen package
75 76 77	0074 1 0075 1 V03-002 LMP0076 L. Mark Pilant, 2-feb-1983 14:43 Correct a bug that caused an access violation if the last 0077 1 line of the ACL text being compressed was empty.
78 79 80 81 83 84 85 86 87 88	0079 1 ! V03-001 LMP0074 L. Mark Pilant, 20-Jan-1983 12:13 0080 1 ! Correctly handle the RMS journal ACE's by setting or 0081 1 ! resetting the flags in the header when an ACE is added 0082 1 ! or deleted. 0083 1 !
85 86 87 88	0085 1 0086 1 LIBRARY 'SYS\$LIBRARY:LIB.L32'; 0087 1 LIBRARY 'SYS\$LIBRARY:TPAMAC.L32'; 0088 1 REQUIRE 'SRC\$:ACLEDTDEF';

AED\$SUBR V04-000		C 10 15-Sep-1984 23:59:16 14-Sep-1984 11:52:32	VAX-11 Bliss-32 V4.0-742 [ACLEDT.SRC]AEDSUBR.B32;1	Page 3 (2)
90 91 92 93 94 95 96 97 98 99 100	0541 1 FORWARD ROUTINE 0542 1 AED_COMPRESS : NOVALUE, 0543 1 AED_SEGSPLIT, 0544 1 AED_SEGCOMBINE, 0545 1 AED_COPSEGMENT, 0546 1 AED_REPSEGMENT, 0547 1 AED_POSITION : NOVALUE, 0548 1 AED_UPDATEACL, 0549 1 AED_SET_CURSOR; 0550 1 0551 1 EXTERNAL ROUTINE 0552 1 AED_PUTOUTPUT;	Combine two Copy segment Replace segment Position to Update the following Position P	t into two pieces segments to working storage ent from working storage selected line	

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10
AED$SUBR
V04-000
                                                                              15-Sep-1984 23:59:16
14-Sep-1984 11:52:32
                                                                                                           VAX-11 Bliss-32 V4.C-742
                                                                                                           [ACLEDT.SRC]AEDSUBR.B32:1
   103
                             GLOBAL ROUTINE AED_COMPRESS : NOVALUE =
   104
                   0554
   105
                   0555
                          1
                             !++
   106
                   0556
0557
                          1
                               FUNCTIONAL DESCRIPTION:
                   0558
   108
   109
                   0559
                                       This routine updates the screen display with the most recent copy of
   110
                   0560
                                       the text stored in memory. In updating, and blank lines (DUMMY) are
                   0561
   111
                                       eliminated from the display and the line table.
                   0562
0563
   112
                               CALLING SEQUENCE:
   114
                   0564
                                       AED_COMPRESS ()
   116
                   0566
0567
                               INPUT PARAMETERS:
                                       none
                   0568
0569
0570
   118
   119
                               IMPLICIT INPUTS:
   AED_L_BEGINLINE: address of the first line of the display
                   0571
                                       AED_Q_LINETABLE: address of the line table list head
                   0572
0573
                               OUTPUT PARAMETERS:
                   0574
0575
                                       none
                   0576
0577
                               IMPLICIT OUTPUTS:
                                       none
                   0578
                   0579
                               ROUTINE VALUE:
                   0580
                                       none
                   0581
                   0582
0583
                               SIDE EFFECTS:
                                       none
                   0584
                   0585
                   0586
                   0587
                            BEGIN
                   0588
                   0589
                            LOCAL
   140
                                       LINES REMOVED, OUTPUT_DESC
                   0590
                                                                                        ! Flag indicating output state
                   0591
0592
0593
0594
0595
0596
                                                            $BBLOCK [DSC$C_S_BLN],
                                                                                                   Output line descr
   142
                                       CURRENT_LINE
                                                          : REF $BBLOCK,
                                                                                         Address of current segment
                                      NEXT_TEXT_LINE
PREV TEXT_LINE
REMOVED_LINE
                                                          : REF $BBLOCK,
                                                                                         Address of next line segment
   144
                                                          : REF $BBLOCK,
                                                                                         Address of previous line segment Address of line removed
                                                          : REF $BBLOCK,
   146
                                                                                         Current line in the display
                                       TEMP_LINE;
   148
149
                   0598
0599
                             ! Set the starting point.
   150
151
152
153
                             TEMP_LINE = 1;
LINES_REMOVED = 0
                   0600
                   0601
                   0602
0603
                             CURRENT_LINE = .AED_L_BEGINLINE;
   154
155
                   0604
                             DO
                                  BEGIN
   156
157
                   0606
0607
                                     .CURRENT_LINE[LINE_V_DUMMY]
                                  THEN
   158
                   0608
   159
                   0609
                                       NEXT_TEXT_LINE = .CURRENT_LINE[LINE_L_FLINK];
```

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15-Sep-1984 23:59:16
14-Sep-1984 11:52:32
AEDSSUBR
                                                                                                                                                                          VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                                                                               Page
                                                                                                                                                                                                                                                         (3)
V04-000
                                                                                                                                                                          [ACLEDT.SRC]AEDSUBR.B32:1
                                                            PREV TEXT_LINE = .CURRENT_LINE[LINE L_BLINK];

IF .XED_L_BEGINLINE EQL .CURRENT_LINE;

THEN AED_C_BEGINLINE = .NEXT_TEXT_LINE;

IF .AED_C_FIRSTLINE EQL .CURRENT_CINE

THEN AED_C_LASTLINE EQL .CURRENT_LINE;

IF .AED_C_LASTLINE = .CURRENT_LINE[LINE L_BLINK];

REMQUE (CURRENT_LINE[LINE L_FLINK], REMOVED_LINE);

IF .REMOVED_LINE[LINE V_BEGINACE]

THEN IF .NEXT_TEXT_LINE NEQA AED_Q_LINETABLE[LINE_L_FLINK]

THEN NEXT_TEXT_LINE[LINE V_BEGINACE] = 1;

IF .REMOVED_LINE[LINE V_ENDACE]

THEN IF .PREV_TEXT_LINE[LINE V_ENDACE] = 1;

DEALLOCATE (.REMOVED_LINE[LINE_V_ENDACE] = 1;

DEALLOCATE (.REMOVED_LINE[LINE_V_ENDACE] = 1;

IF .NEXT_TEXT_LINE EQLA AED_Q_LINETABLE[LINE_L_FLINK]
                               0610
     160
     161
                               0611
     162
                               0612
     164
                               0614
                               0616
0617
     166
167
     168
169
170
171
172
173
174
175
                               0618
                               0619
                          0619
0621
0623
0623
0623
0626
0626
0627
0629
0630
     176
                                                              IF .NEXT_TEXT_LINE EQLA AED_Q_LINETABLE[LINE_L_FLINK]
      177
                                                              THEN
     178
     179
                                                                     SCRSERASE_PAGE (.TEMP_LINE, 1);
      180
                                                                     RETURN;
                               0631
      181
                                                                     END:
                                                             UNTIL .AED_L_LASTLINE[LINE_V_ENDACE]

DO AED_L_LASTLINE = .AED_L_LASTLINE[LINE_L_FLINK];

CURRENT_LINE = .NEXT_TEXT_LINE;

IF NOT .LINES_REMOVED THEN SCRSERASE_PAGE (.TEMP_LINE, 1);

LINES_REMOVED = 1;
     182
183
                               0033
                               0634
      184
     185
                               0635
      186
                               0636
     187
                               0637
                                                              IF .TEMP_LINE LEG .AED_B_LINE THEN AED_B_LINE = .AED_B_LINE - 1;
     188
                               0638
                                                              END
     189
                               0639
                                                      ELSE
     190
                               0640
                                                              BEGIN
     191
                               0641
                                                              OUTPUT_DESC[DSC$W_LENGTH] = .CURRENT_LINE[LINE_W_SIZE]
     192
193
                               0642
                                                              OUTPUT DESCEDSCSA POINTER] = CURRENT LINE [LINE TTEXT];
                                                                   .LINES_REMOVED
     194
                               0644
                                                              THEN
     195
                               0645
                                                                     BEGIN
     196
197
                                                                     AED_SET_CURSOR (.TEMP_LINE, 1);
SCRSERASE_LINE (.TEMP_LINE, 1);
                               0646
                               0647
                                                                     AED_PUTOUTPUT (OUTPUT_DESC);
     198
                               0648
                               0649
     199
                                                                     END:
      200
                                                              TEMP_LINE = .TEMP_LINE + 1;
      201
202
203
204
205
                               0651
0652
0653
0654
0655
                                                              CURRENT_LINE = .CORRENT_LINE(LINE_L_FLINK);
                                                              END:
                                                      END
                                              UNTIL
                                                          (.TEMP_LINE GTR 20)
                                                    OR (.CURRENT_LINE EQLA AED_Q_LINETABLE[LINE_L_FLINK]);
      206
207
                               0656
                               0657
0658
                                              RETURN:
      208
      209
                               0659
                                          1 END;
                                                                                                                                           ! End of routine AED_COMPRESS
                                                                                                                                                .TITLE
                                                                                                                                                              AED$SUBR
                                                                                                                                                .IDENT
                                                                                                                                                              \V04-000\
```

.PSECT AED_COMMON, NOEXE, OVR, O

0007A

0007C AED_W_TERMIN:

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G 10
15-Sep-1984 23:59:16
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                               VAX-11 Bliss-32 V4.0-742
                               [ACLEDT.SRC]AEDSUBR.B32:1
0007E .BLKB
00080 AED_W_TERMOUT:
                .BLKB
00082
00084 AED_W_IOSB:
                .BLKB
0008C AED_L_STATUS:
                .BLKB
00090 AED_B_FIELD:
00091
                .BLKB
00094 AED_W_FIELDBEG:
                .BLKB
00098 AED_W_FIELDEND:
                .BLKB
0009A
                .BLKB
0009C AED_B_ITEM:
                .BLKB
0009D
                         Ż
                .BLKB
000A0 AED_W_ITEMBEG:
                         5
SA000
                BLKB
000A4 AED_W_ITEMEND:
000A6
000A8 AED_B_ACETYPE:
                .BLKB
000A9
                         3
                .BLKB
000AC AED_W_JOURNAL:
                        5
                .BLKB
000BO AED_T_CURLINE:
                        532
                BLKB
002C4 AED_W_TOTALSIZE:
                .BLKB
002C6 JOURNAL_FAB:
                .BLKB
                .BLKB
00318 JOURNAL_NAM:
00378 JOURNAL RAB:
                .BLKB
003BC JOURNAL_XABPRO:
                        88
                .BLKB
00414 JOURNAL_BUFFER:
                         10
                .BLKB
0041E BLKB O0420 JOURNAL INDEX:
                         2
00424 RECOVER_FAB:
                        80
00474 RECOVER_NAM:
                        96
                .BLKB
004D4 RECOVER_RAB:
                        68
                .BLKB
```

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```
00518 RECOVER_BUFFER:
                                                                                            .BLKB
                                                                 00522 BLKB 00524 RECOVER_INDEX:
                                                                                                          2
                                                                                                        CLISGET VALUE, CLISPRESENT
LIBSFREE VM, LIBSGET VM
LIBSTPARSE, SCRSDOWN SCROLL
SCRSERASE LINE, SCRSERASE PAGE
SCRSSET CORSOR, SCRSSET SCROLL
SCRSUP SCROLL, AEDS OBJEOCKED
AEDS BADKEEP, AEDS EOCATERR
AEDS JOUWRITERR
AEDS JOUCLOSOUT
AEDS RECREADERR
AEDS RECREADERR
AEDS RECREADERR
AEDS RECOPENIN, AEDS RECLOSEIN
AEDS BADUIC, AEDS BADGRPMEM
AEDS SYNTAX, AEDS BADTYPE
                                                                                           .EXTRN
                                                                                            . ËXTRN
                                                                                           .EXTRN
                                                                                           .EXTRN
                                                                                           .EXTRN
                                                                                           .EXTRN
                                                                                            .EXTRN
                                                                                            .EXTRN
                                                                                            .EXTRN
                                                                                            .EXTRN
                                                                                            .EXTRN
                                                                                            .EXTRN
                                                                                            .EXTRN
                                                                                            .EXTRN
                                                                                                         AEDS SYNTAX, AEDS BADTYPE
AEDS NOITEMSEL, AEDS MUSTENTER
AEDS INIOPENIN, AEDS INICLOSIN
AEDS DEFSYNTAX, AEDS NODELETE
                                                                                           .EXTRN
                                                                                           .EXTRN
                                                                                           .EXTRN
                                                                                            .EXTRN
                                                                                                         AEDS NOMODIFY, AEDS NOHIDDEN AEDS DUPLICATE, AEDS NOCOMBINE AEDS NOTFOUND, AEDS NOCTRICHAR AEDS NOTFOUND, AEDS CONTROL C
                                                                                           .EXTRN
                                                                                            .EXTRN
                                                                                            .EXTRN
                                                                                           .EXTRN
                                                                                                         AED$_ACLUPDATED
                                                                                           .EXTRN
                                                                                                         AED$_NOCHANGE, AED_PUTOUTPUT
                                                                                           .EXTRN
                                                                                           .PSECT $CODE$, NOWRT, 2
                                                                                                        AED_COMPRESS, Save R2,R3,R4,R5,R6,R7,R8
SCR$ERASE_PAGE, R8
AED_L_LASTLINE, R7
#16, SP
#1, TEMP_LINE
LINES_REMOVED
AED_L_BEGINLINE, CURRENT_LINE
#2, 10(CURRENT_LINE), 2$
                                                        01FC 00000
                                                                                           .ENTRY
                                                                                                                                                                                               0553
                          58 00000000G
                                                          9E 00002
                                                    00
                                                                                           MOVAB
                          57
                                       0000
                                                           9E 00009
                                                    CF
                                                                                           MOVAB
                          5E
                                                           CŽ
                                                                                           SUBL 2
                                                    10
                                                                0000E
                          54
                                                    01
                                                           DO 00011
                                                                                                                                                                                               0600
                                                                                           MOVL
                                                           D4 00014
                                                                                           CLRL
                                                                                                                                                                                               0601
                          52
A2
                                          04
                                                    A7
                                                           DO 00016
                                                                                           MOVL
                                                                                                                                                                                               0602
                                                           EO 0001A
03
                0A
                                                    02
                                                                                           BBS
                                                                0001A 1$:
                                                                                                                                                                                               0606
                                                OAO
                                                                                           BRW
                         53
55
52
                                                           DO 00022 28:
DO 00025
                                                                                                         (CURRENT_LINE), NEXT_TEXT_LINE 4(CURRENT_LINE), PREV_TEXT_LINE
                                                                                                                                                                                               0609
                                                   62
                                                                                          MOVL
                                                    A2
A7
                                                                                           MOVL
                                                                                                                                                                                               0610
                                          04
                                                           D1 00029
                                                                                           CMPL
                                                                                                          AED_L_BEGINLINE, CURRENT_LINE
                                                                                                                                                                                               0611
                                                    04
                                                                0002D
                                                                                           BNEQ
                                                           12
                                                                                                         NEXT TEXT LINE, AED L BEGINLINE
AED C FIRSTLINE, CURRENT LINE
                                                           DŎ
                04
                                                                0002F
                                                                                                                                                                                               0612
0613
                                                                                           MOVL
                          52
                                                                00033 35:
                                          FC
                                                                                           CMPL
                                                           D1
                                                                00037
                                                                                          BNEQ
                                                           12
                                                    Š3
                                                           DÕ 00039
                                                                                                         NEXT TEXT LINE, AED L FIRSTLINE
AED CLASTLINE, CURRENT LINE
                                                                                           MOVL
                FC
                                                                                                                                                                                               0614
                          52
                                                    67
                                                           D1
                                                                0003D 4$:
                                                                                           CMPL
                                                                                                                                                                                               0615
                                                    04
                                                           12
                                                                00040
                                                                                          BNEQ
                                                                                                         4(CURRENT LINE), AED L LASTLINE (CURRENT LINE), REMOVED LINE REMOVED LINE, RO 10(RO), 6$
                                                   A2
                                                           DÖ 00042
                                                                                           MOVL
                                                                                                                                                                                               0616
                 04
                                                           ŌF
                                                                00046 5$:
                                                                                          REMQUE
                                                                                                                                                                                              0617
                          AE
50
                                                           DO 0004A
                                                                                          MOVL
                                                                                                                                                                                              0618
                                                    AE
                          0D
51
                                          0A
                                                           E9
                                                                0004E
                                                    AG
                                                                                           BLBC
                                                    A7
                                                           9É
                                                                00052
                                                                                                                                                                                              0619
                                                                                           MOVAB
                                                                                                         AED_Q_LINETABLE, R1
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AED\$SUBR V04-000		I 10 15-sep-1984 23:59:16	Page 9 (3)
	0D 0A A3 0A A0 51 51	53 D1 00056	0620 0621 0622
	04 AE	55 D1 00068	0623 0625
	0000000G 00	EC A7 9E 00087 MOVAB AED Q LINETABLE, RO 53 D1 0008B CMPL NEXT TEXT LINE, RO	0626
	68	08 12 0008E BNEQ 8\$ 01 DD 00090 PUSHL #1 54 DD 00092 PUSHL TEMP_LINE 02 FB 00094 CALLS #2, SCR\$ERASE_PAGE 04 00097 RET 67 DO 00098 8\$: MOVL AED_L_LASTLINE, RO	0629
	05 0A 50 67	04 00097 RET 67 DO 00098 8\$: MOVL AED_L_LASTLINE, RO 01 EO 0009B BBS #1, 10(RO), 9\$ 60 DO 000AO MOVL (RO), AED_L_LASTLINE	0628 0632 0633
	52 07	F3 11 000A3 BRB 8\$ 53 DO 000A5 9\$: MOVL NEXT_TEXT_LINE, CURRENT_LINE 56 E8 000A8 BLBS LINES_REMOVED, 10\$ 01 DD 000AB PUSHL #1	0634 0635
54 E0	68 56 08	54 DD 000AD PUSHL TEMP_LINE 02 FB 000AF CALLS #2, SCR\$ERASE_PAGE 01 DO 000B2 10\$: MOVL #1, LINES_REMOVED 00 ED 000B5 CMPZV #0, #8, AED_B_LINE, TEMP_LINE 33 19 000BB BLSS 13\$ EO A7 97 000BD DECB AED B LINE	0636 0637
		2E 11 000C0 BRB 13\$ 08 A2 B0 000C2 11\$: MOVW 8(CURRENT_LINE), OUTPUT_DESC 14 A2 9E 000C7 MOVAB 20(R2), OUTPUT_DESC+4 56 E9 000CC BLBC LINES_REMOVED, 12\$	0606 0641 0642 0643 0646
	0000V CF	54 DD 00001 PUSHL TEPP_LINE 02 FB 000D3 CALLS #2, AED_SET_CURSOR 01 DD 000D8 PUSHL #1 54 DD 000DA PUSHL TEMP_'INE 02 FB 000DC CALLS #2, Strserase_Line 08 AE 9F 000E3 PUSHAB OUTPUT DESC	0647
	0000000G 00 0000G CF	54 DD 000DA PUSHL TEMP INE 02 F6 000DC CALLS #2, \$(R\$ERASE_LINE 08 AE 9F 000E3 PUSHAB OUTPUT DESC 01 FB 000E6 CALLS #1, AEC PUTOUTPUT 54 D6 000EB 12\$: INCL TEMP_LITE 62 D0 000ED MOVL (CURRENT_LINE), CURRENT_LINE 54 D1 000E0 13\$: CMPL TEMP_LINE	0648
	52 14	54 D6 000EB 12\$: INCL TEMP_LITE 62 D0 000ED MOVL (CURRENT_LINE), CURRENT_LINE 54 D1 000F0 13\$: CMPL TEMP_LINE, #20 0C 14 000F3 BGTR 14\$	0650 0651 0654
	50 50	0C 14 000F3 BGTR 14\$ EC A7 9E 000F5 MOVAB AED Q LINLTABLE, RO 52 D1 000F9 CMPL CURRENT_LIJE, RO 03 13 000FC BEQL 14\$	0655
		03 13 000FC BEQL 148 FF19 31 000FE BRW 18 04 00101 148: RET	0659

; Routine Size: 258 bytes. Routine Base: \$CODE\$ + 0000

AEC VOV VAX-11 Bliss-32 V4.0-742 [ACLEDT.SRC]AEDSUBR.B32;1 AED\$SUBR V04-000 Page 10 (3) 000

```
0660
                        GLOBAL ROUTINE AED_SEGSPLIT (POSITION, EXACT, FIRST, NO_REPAINT) =
               0661
0662
0663
0664
0665
0666
0668
0669
0670
0671
0673
                          FUNCTIONAL DESCRIPTION:
                                 This routine takes the current line segment and splits it up into
                                 two pieces. The second piece becomming the new current line. The
                                 split will occur at the current position or (usually) after the
                                 most recent delimiter.
                          CALLING SEQUENCE:
                                 AED_SEGSPLIT (ARG1, ARG2, ARG3, ARG4)
               0674
                          INPUT PARAMETERS:
               0675
                                 ARG1: address of the cell containing the current buffer position
               0676
0677
                                 ARG2: 1 = do the split at the current position
                                        O = find the previous delimiter, and split after it
               0678
                                 ARG3: 1 = position to the first line segment
                                        0 = position to the second (split) segment
               0680
                                 ARG4: 1 = don't repaint the display after splitting line
               0681
                                        0 = repaint the display after splitting the line
              0682
0683
                          IMPLICIT INPUTS:
               0684
                                 AED_T_CURLINE: the current line segment
               0685
               0686
                          OUTPUT PARAMETERS:
               0687
                                 ARG1: address of the cell containing the current buffer position
               0688
               0689
                          IMPLICIT OUTPUTS:
               0690
                                 none
              0691
              0692
0693
                          ROUTINE VALUE:
                                 none
               0694
               0695
                          SIDE EFFECTS:
               0696
                                 none
              0697
               0698
               0699
              0700
                        BEGIN
               0701
              0702
0703
                        BIND
                                 SEGMENT_SIZE
                                                   = AED_T_CURLINE[LINE_W_SIZE] : WORD,
= AED_T_CURLINE[LINE_T_TEXT] : VECTOR [,BYTE];
              0704
                                 BUFFER
               0705
              0706
0707
0708
0709
0710
                       LOCAL
                                 OUTPUT DESC
NEW TEXT LINE
                                                   : $BBLOCK [DSC$C_S_BLN],
                                                                                          Output line descr
                                                   : REF $BBLOCK,
                                                                                 Addr of new line segment
                                 SPLIT SEGMENT
SPLIT SIZE,
                                                   : REF SBBLOCK,
                                                                                 Addr of split portion
                                                                                 Size of split off segment
Skip characters in field count
               0711
                                 SKIP_CHAR;
               0712
                       ! Initialize necessary items.
              0714
                        CHSFILL (O, DSCSC_S_BLN, OUTPUT_DESC);
```

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```
AEDSSUBR
V04-000
    299
300
     301
    302
303
     304
    305
    306
307
     308
     309
    310
    311
312
313
     314
     315
     316
     317
     318
     319
     320
321
322
323
324
```

```
2! If this is not an exact split, find the previous delimiter.
Z IF NO
   IF NOT .EXACT
        DECR J FROM .SEGMENT_SIZE - 1 TO 0
              BEGIN
              IF (.BUFFER[.J] LSS 'A' OR .BUFFER[.J] GTR 'Z')
AND (.BUFFER[.J] LSS 'O' OR .BUFFER[.J] GTR '9')
              AND .J LSS .. POSITION
              THEN
                   BEGIN
                    .POSITION = .J + 1;
                   EXITLOOP;
                   END:
              END:
        END:
     Split the line up into two segments. This may cause the second segment to
     be null if the index was at the end of the segment. This is OK, as it will
     be cleaned up when the segment is replaced.
  IF NOT .AED_L_STATUS
   THEN
        BEGIN
        SIGNAL (.AED_L_STATUS);
        RETURN 0:
        END:
     Copy the text from the current line as AED_REPSEGMENT clears out the
     current line buffer. Then, replace the modified first part of the original
  ! line.
  CH$MOVE (.SPLIT_SIZE, BUFFER[..POSITION], SPLIT_SEGMENT[LINE_T_TEXT]);
SEGMENT_SIZE = ..POSITION;
SCR$ERASE_LINE (.AED_B_LINE, .SEGMENT_SIZE + 1);
NEW_TEXT_LINE = AED_REPSEGMENT ();
   ! Fill in the necessary information about the split portion of the original
   ! line segment.
  SPLIT_SEGMENT[LINE_W_SIZE] = .SPLIT_SIZE;

IF .NEW_TEXT_LINE[LINE_V_ENDACE]

THEN SPLIT_SEGMENT[LINE_W_FLAGS] = LINE_M_ENDACE

ELSE SPLIT_SEGMENT[LINE_W_FLAGS] = 0;

NEW_TEXT_LINE[LINE_V_ENDACE] = 0;

SPLIT_SEGMENT[LINE_L_BINACE] = .NEW_TEXT_LINE[LINE_L_BINACE];

INSQUE (SPLIT_SEGMENT[LINE_L_FLINK], NEW_TEXT_LINE[LINE_L_FLINK]);

AED_W_TOTALSIZE = .AED_W_TOTALSIZE + .SPLIT_SIZE;
     Determine the field index for the split portion of the line. This is done
     by counting the number of fields in the first part of the line.
```

: F

Page

```
0774
0775
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                           0778
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                           0781
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0791
0793
                           0794
0795
                           0796
0797
                           0798
                           0799
                           0800
352
353
                           0801
                           0802
0803
354
355
                           0804
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357
                           0805
                           0806
0807
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359
                           0808
                           0809
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                           0810
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                           0811
                           0812
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                           0814
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                           0816
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                           0826
0827
                           0828
 380
 381
```

```
SKIP CHAR = 0;
AED B FIELD = .NEW TEXT LINE[LINE B FIELDST];
INCR J FROM O TO .NEW_TEXT_LINE[LINE_W_SIZE] - 1
DO
       IF .VECTOR [NEW_TEXT_LINE[LINE_T_TEXT], .J; ,BYTE] EQL '['
THEN SKIP_CHAR = 1;
       IF .VECTOR [NEW_TEXT_LINE[LINE_T_TEXT], .J; ,BYTE] EQL ']'
THEN SKIP_CHAR = 0;
       IF NOT .SKIP_CHAR
       THEN
              IF .VECTOR [NEW_TEXT_LINE[LINE_T_TEXT], .J; ,BYTE] EQL ','
              THEN
                    IF .AED_B_FIELD GEQ 1 AND .AED_B_ACETYPE NEQ ACESC_DIRDEF
THEN AED_B_FIELD = 6
ELSE AED_B_FIELD = .AED_B_FIELD + 1;
              IF .AED_B_FIELD GEQ 1
              THEN
                    BEGIN
                    IF .VECTOR [NEW_TEXT_LINE[LINE_T_TEXT], .J; ,BYTE] EQL '='
OR .VECTOR [NEW_TEXT_LINE[LINE_T_TEXT], .J; ,BYTE] EQL '+'
THEN AED_B_FIELD = .AED_B_FIELD + 1;
                    END:
             END:
       END:
SPLIT_SEGMENT[LINE_B_FIELDST] = .AED_B_FIELD;
! Position to the correct segment.
IF .FIRST THEN
      AED_POSITION (.NEW_TEXT_LINE);
AED_COPSEGMENT (.NEW_TEXT_LINE);
INSQUE (AED_T_CURLINE[LINE L_FLINK], .N
IF .AED_L_FIRSTLINE EQL_.NEW_TEXT_LINE
THEN AED_C_FIRSTLINE = AED_T_CURLINE;
IF .AED_C_CASTLINE EQL_.NEW_TEXT_LINE
THEN AED_C_BEGINLINE EQL_.NEW_TEXT_LINE
THEN AED_C_BEGINLINE = AED_T_CURLINE;
FND
                                                                     .NEW_TEXT_LINE[LINE_L_BLINK]);
       ENU
ELSE
       AED_POSITION (.SPLIT_SEGMENT);
AED_COPSEGMENT (.SPLIT_SEGMENT);
       INSQUE (AED_T_CURLINE[[INE L_flink], .SPLIT_SEGMENT[LINE_L_BLINK]);
IF .AED_L_LASTLINE EQL .NEW_TEXT_LINE
THEN AED_C_LASTLINE = AED_T_CURLINE;
       END:
   Now repaint the display. This is done by either scrolling down and repainting
    the first part of the display or repainting from the current position to the
   end of the display (or the end of the ACL). This is necessary to echo the
```

```
2 ! text from the split portion of the line.
0832
0833
                               IF NOT .NO_REPAINT
                   0834
                               THEN
                   0835
                                     BEGIN
                   0836
0837
                                     IF .AED_B_LINE LEQ 10
                                     THEN
                   0838
                                          BEGIN
                                           AED_SET_CURSOR (1,1);
SCR$DOWN_SCROLL ();
                   0839
                                                                                          ! **** TEMP ****
                   0840
                  08412
08443
08445
08445
08447
08447
08449
                                           NEW_TEXT_LINE = .AED_L_BEGINLINE;
                                           INCR J FROM 1 TO .AED_B_LINE
                                                 BEGIN
                                                OUTPUT_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
OUTPUT_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
AED_SET_CURSOR (.J. 1);
398
399
400
401
                                                 AED_PUTOUTPUT_(QUTPUT_DESC);
                                                SCRSERASE LINE (.J. .OUTPUT DESCEDSCSW_LENGTH] + 1);
NEW_TEXT_LINE = .NEW_TEXT_LINE(LINE_L_FLINK);
                   0850
402
403
404
                                                END:
                   0851
                   0852
0853
                                           END
                                     ELSE
405
                   0854
                                          BEGIN
                                          NEW TEXT LINE = .AED T CURLINE[LINE_L_FLINK]; INCR J FROM .AED_B_LINE TO 20
406
                   0855
407
                   0856
408
                   0857
409
                   0858
                                                OUTPUT_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
OUTPUT_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
AED_SET_CURSOR (.J. 1);
410
                   0859
411
                   0860
412
                   0861
                   0862
0863
                                                 AED_PUTOUTPUT (OUTPUT_DESC);
                                                SCRSERASE LINE (.J. .OUTPUT DESCEDSCSW LENGTH] + 1);
NEW TEXT [INE = .NEW TEXT LINE[LINE L FLINK];
414
415
                   0864
                   0865
416
417
                                                 IF THEW_TEXT_LINE EQEA AED_Q_LINETABLE[LINE_L_FLINK] THEN EXITLOOP;
                   0866
                                                END:
418
                                          END;
                   0867
419
                   0868
                                     END:
420
421
423
425
427
427
                   0869
                   0870
                               ! Set the cursor position correctly.
                   0871
                   0872
0873
                               .POSITION = 0:
                               IF .FIRST OR NOT .EXACT
                   0874
                               THEN .POSITION = .SEGMENT_SIZE;
                   0875
                   0876
0877
                              AED_B_COLUMN = ..POSITION + 1;
AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
428
429
430
                   0878
                   0879
                               RETURN 1:
431
                   0880
                                                                                                      ! End of routine AED_SEGSPLIT
                              END:
```

SEGMENT_SIZE= AED_T_CURLINE+8
BUFFER= AED_T_CURLINE+20
.EXTRN LIB\$SIGNAL

			11 Sep-1984 23:59:16
		OFFC 00000	.ENTRY AED_SEGSPLIT, Save R2,R3,R4,R5,R6,R7,R8,R9,-; 0660
		5B 00000000G 00 9E 00002 5A 00000000G 00 9E 00009 59 0000' CF 9E 00010 5E 10 C2 00015 6E 00 2C 00018 08 AE 0001D	MOVAB SCR\$ET_CURSOR, R11 MOVAB SCR\$ERASE_LINE, R10 MOVAB AED_B_FIEED, R9 SUBL2 #16, SP
80	00	08 AE 0001D	MUVC) WU, (SP., WU, WB, UUIPUI_DESC ; U/IS
		50 28 A9 3C 00023	BLBS EXACT, 5\$ 0719 MOVZWL SEGMENT_SIZE, J 0722
	41	28 11 00027 51 34 A940 9A 00029 1 8F 51 91 0002E 06 1F 00032	\$: MOVZBL BUFFER[J], R1
	5A	8F 51 91 00034 17 1B 00038	BLSSU 2\$ CMPB R1, #90 BLEQU 4\$
		30 51 91 0003A 2 05 1F 0003D 39 51 91 0003F	\$: CMPB R1, #48 : 0726 BLSSU 3\$: CMPB R1, #57
	04	0D 1B 00042 BC 50 D1 00044 3	BLEQU 4\$ \$: CMPL J. aposition :0727
	04	BC 01 A0 9E 0004A 03 11 0004F D5 50 F4 00051 4	BGEQ 4\$ MOVAB 1(RO), aPOSITION BRB 5\$ 5: SOBGEQ J, 1\$ 0729
		58	5: MOVL @POSITION, R8 ; 0740 ; 0740
	04	04 AE 9F 0005F 52 14 A6 9E 00062 AE 52 DO 00066	PUSHAB SPLIT_SEGMENT : 0742
	00000000	04 AE 9F 0006A 00 02 FB 0006D 57 50 DO 00074	MOVE RO. VM STATUS
52	00	07 57 E9 00077 6E 00 2C 0007A 04 BE 0007F A9 57 D0 00081 6	BLBC VM_STATUS, 6\$ MOVC5 WO, (SP), WO, R2, @SPLIT_SEGMENT
	FC 12 FF70	50 FC A9 E8 00085	BLBS AED_L_STATUS, 108_ ; 0743
	00000000	01 DD 0008F 15 DD 00091	BBC #3, AED_L_FLAGS, 7\$ PUSHL #1 PUSHL #21 CALLS #2, SCR\$ERASE_PAGE PUSHL #1 PUSHL #21 CALLS #21 CALLS #2, SCR\$SET_CURSOR \$: PUSHL AED_L_STATUS
	00000000	6B 02 FB 0009E FC A9 DD 000A1 7	PUSHL #1 PUSHL #21 CALLS #2. SCR\$SET_CURSOR S: PUSHL AED_L_STATUS
	000000000 0B FF70	00 01 FB 000A4 C9 03 E1 000AB 7E 90 A9 9A 000B1 7E 94 A9 9A 000B5 6B 02 FB 000B9 50 FC A9 D0 000BC 8 07 50 93 000C0	BBC #3, AED_L_FLAGS, 8\$ MOVZBL_AED_B_COLOMN, -(SP) MOVZBL_AED_B_LINE, -(SP)
			CALLS #2. STR\$SET_CURSOR \$: MOVL AED_L_STATUS, RO BITB RO. #7 BEQL 9\$ EXTZV #0. #3, R0, R1
51 51	50 84 A9	03 00 EF 000C5 03 00 ED 000CA	EXTZV #0, #3, R0, R1 CMPZV #0, #3, AED_L_WORSTERR, R1

AE V(

					:	C 11 5-Sep 4-Sep	-1984 23:59 -1984 11:52	:16 VAX-11 Bliss-32 V4.0-742 :32 CACLEDT.SRCJAEDSUBR.B32;1	Page 16 (4)
14	A7	84 34 A 28	A9 57 948 A9 7E	018 04 A	4 18 00000 0 00 00000 A 31 00000 E 00 00000 6 28 00000 8 80 00000 9 30 00000	9\$: 10\$:	BGEQ MOVL BRW MOVL MOVC3 MOVW MOVZWL	9\$ RO, AED_L_WORSTERR 33\$ SPLIT_SEGMENT, R7 SPLIT_SIZE, BUFFER[R8], 20(R7) R8, SEGMENT_SIZE SEGMENT_SIZE, -(SP)	0747 0754 0755 0756
	06	V0000 80 A0 A0	7E 6A CF 53 A7 A3 A7	94 A	P D6 000E(P PA 000E(PB 000F(D0 000F(B0 000F(E1 0010(B0 0010(INGL MOVZBL CALLS CALLS MOVL MOVW BBC MOVW	(SP) AED_B_LINE, -(SP) #2, STR\$ERASE_LINE #0, AED_REPSEGMENT R0, NEW_TEXT_LINE SPLIT_SIZE, 8(R7) #1, 10(NEW_TEXT_LINE), 11\$ #2, 10(R7) 12\$	0757 0762 0763 0764
		0A 0C 0234	A3 A7 63 C9	0A A 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 11 0010/ 7 84 0010/ 2 8A 0010/ 3 DO 0011/ 7 OE 0011/ 6 AO 0011/ 4 D4 0012/ 3 90 0012/	11\$: 12\$:		12% 10(R7) #2, 10(NEW_TEXT_LINE) 12(NEW_TEXT_LINE), 12(R7) (R7), (NEW_TEXT_LINE) SPLIT_SIZE, AED_W_TOTALSIZE SKIP_CHAR 16(NEW_TEXT_LINE), AED_B_FIELD 8(NEW_TEXT_LINE), R5 20(NEW_TEXT_LINE), R0	0765 0766 0767 0768 0769 0774
		58	69 55 50 52 51 8f	624 624 5	1 CE 00121 E 11 0013 0 94 0013		MOVZWL MOVAB MNEGL BRB MOVZRI	19\$ (J)[R0], R1 R1, #91	0776 0779
		5D	54 8F 26 2C	5	2 12 00144 4 D4 00148 4 E8 00148 1 91 00148 1 12 00148	15 \$:	CLRL	#1, SKIP_CHAR R1, #93 15\$ SKIP_CHAR SKIP_CHAR, 19\$ R1, #44 17\$	0780 0781 0782 0783 0786
			09 69	18 A	9 95 00156 9 91 00156 9 91 00156 9 90 00156 9 95 00166 9 95 00166 9 95 00166 9 90 00166 9 90 00176 9 90 00176 9 90 00176 9 90 00176 9 90 00176 9 90 00176)	BEQL CMPB BEQL MOVB BRB INCB	AED_B_FIELD 16\$ AED_B_ACETYPE, #9 16\$ #6, AED_B_FIELD 17\$ AED_B_FIELD AED_B_FIELD 19\$	0790 0791 0793
	BE		3D 2B	50500	C 13 0016 1 91 0016 5 13 0016 1 91 0016 2 12 0016 9 96 0016 5 F2 0017) 18\$:	BEQL CMPB BEQL CMPB BNEQ INCB	R1, #61 18\$ R1, #43	0796 0797 0798 0776
	UL.	10 0000v	52 52 A2 36 CF	04 A	DO 00179 9 90 00179 C E9 00170 3 DD 00189 1 FB 00189		MOVL MOVB BLBC PUSHL CALLS	AÉD_B_FIELD R5. J. 13\$ SPLIT_SEGMENT, R2 AED_B_FIELD, 16(R2) FIRST, 22\$ NEW_TEXT_LINE W1, AED_POSITION	0802 0806 0809

				D 11 15-Sep- 14-Sep-	1984 23:59 1984 11:52	:16 VAX-11 Bliss-32 V4.0-742 :32 [ACLEDT.SRC]AEDSUBR.B32;1	Page 17 (4)
0000v	CF B3 53	20 B0	01 FB 00	1188 118A 118F	PUSHL CALLS INSQUE CMPL	NEW_TEXT_LINE #1, AED_COPSEGMENT AED_T_CORLINE, @4(NEW_TEXT_LINE) AED_L_FIRSTLINE, NEW_TEXT_CINE	: 0810 : 0811 : 0812
В0	A9 53	20 84	05 12 00 A9 9E 00 A9 D1 00	1198 1198	BNEQ MOVAB CMPL	AED_T_CURLINE, AED_L_FIRSTLINE AED_L_LASTLINE, NEW_TEXT_LINE	0813 0814
В4	A9 53	04 88	AE DO 00	119F 20\$: 11A3 11A5 11AA 21\$:	BNEQ MOVL CMPL	21\$ SPLIT_SEGMENT, AED_L_LASTLINE AED_L_BEGINLINE, NEW_TEXT_LINE 23\$	0815 0816
В8	A9	20	25 12 00 A9 9E 00 1E 11 00	11AE 11BO 11B5	BNEQ MOVAB BRB	AED_T_CURLINE, AED_L_BEGINLINE 23\$	0817 0806
0000v			01 FB 00	187 22 \$: 189 18E	PUSHL CALLS PUSHL	#1, AED_POSITION #2	0821
0000v 04	CF B2 53	20 84	01 FB 00 A9 0E 00 A9 D1 00 05 12 00 A9 9E 00	11C0 11C5 11CA	CALLS INSQUE CMPL	#1, AED_COPSEGMENT AED_T_CURLINE, 04(R2) AED_L_LASTLINE, NEW_TEXT_LINE 23\$	0823 0824
84	A9 4F 0A	20 10 94	A9 91 00 4B 1A 00	1105 23 3 : 1109 1100	BNEQ MOVAB BLBS CMPB BGTRU	AED_T_CURLINE, AED_L_LASTLINE NO_REPAINT, 26\$ AED_B_LINE, #10 27\$ #1	0825 0833 0836
00000000 0000000	CF 00 53 54	B8 94	01 DD 00 01 DD 00 02 FB 00 00 FB 00 A9 DO 00	110F 11E1 11E3 11E8 11EF	PUSHL PUSHL CALLS CALLS MOVL MOVZBL CLRL	#1 #2, AED_SET_CURSOR #0, SCR\$DOWN_SCROLL AED_L_BEGINLINE, NEW_TEXT_LINE AED_B_LINE, R4 J	0839 0840 0841 0842
08 00	AE AE	08 14	A3 B0 00 A3 9E 00 01 DD 00	11FB 24 5 :	BRB MOVW MOVAB PUSHL	25\$ 8(NEW_TEXT_LINE), OUTPUT_DESC 20(R3), OUTPUT_DESC+4	0845 0846 0847
0000v 0000G		80 80	02 FB 00 AE 9F 00 01 FB 00	207 209 20E 211 216 21A	PUSHL CALLS PUSHAB CALLS MOVZWL INCL	#2, AED_SET_CURSOR OUTPUT_DESC #1, AED_PUTOUTPUT OUTPUT_DESC, -(SP) (SP)	0848 0849
D3	6A 53 52		AE 3C 00 6E DD 00 52 FB 00 63 F3 00 542 11 00 63 F3 00 64 F3 00 65 F5	210 21E 221 224 25\$:	PUSHL CALLS MOVL AOBLEQ	#2, SCR\$ERASE_LINE (NEW_TEXT_LINE), NEW_TEXT_LINE R4, J, 24\$	0850 0842
	53 52	20 94	42 11 00 A9 D0 00 A9 9A 00 52 D7 00	228 26\$: 22A 27\$: 22E 232 234	BRB MOVL MOVZBL DECL	AED_T_CURLINE, NEW_TEXT_LINE AED_B_LINE, J J	0836 0855 0856
08 00	AE AE	08 14	01 00 00	23B	BRB MOVW MOVAB PUSHL	29\$ 8(NEW_TEXT_LINE), OUTPUT_DESC 20(R3), OUTPUT_DESC+4 #1	0859 0860 0861
0000v 0000G		08	52 DD 00 02 FB 00 AE 9F 00 01 FB 00	242 244 249 240	PÜSHĒ CALLS PUSHAB CALLS	#2, AED_SET_CURSOR OUTPUT_DESC #1, AED_PUTOUTPUT	0862

AED\$SUBR V04-000			£ 11 15-Sep-1984 23:59: 14-Sep-1984 11:52:	:16 VAX-11 Bliss-32 V4.0-742 Pa :32 [ACLEDT.SRC]AEDSUBR.B32;1	age 18 (4)
		7E 08 AE 6E 52	E D6 00255 INCL	OUTPUT_DESC, -(SP) (SP) J #2, SCRSERASE_LINE	: 0863
		6A 02 53 63 50 A0 A9 50 53	3 DO 0025C MOVL 9 9E 0025F MOVAB 3 D1 00263 CMPL 4 13 00266 BEQL 4 F3 00268 29\$: AOBLEQ	N2, SCRSERASE LINE (NEW TEXT LINE), NEW TEXT LINE AED D LINETABLE, RO NEW TEXT LINE, RO 30\$ N20, J, 28\$ aposition FIRST, 31\$ EXACT, 32\$ SEGMENT SIZE, aposition N1, aposition, AED B COLUMN AED B COLUMN, -(SP) AED B LINE, -(SP) N2, AED SET CURSOR N1, RO	0864
		52 14 04 BC 05 08 AC BC 28 A9	4	aposition FIRST, 31\$ EXACT, 32\$	0856 0872 0873
90		BC 01 7E 90 A9 7E 94 A9	9 3C 00277 31\$: MOVZWL 1 81 0027C 32\$: ADDB3 9 9A 00282 MOVZBL 9 9A 00286 MOVZBL	#1, aposition, AED_B_COLUMN AED_B_COLUMN, -(SP) AED_B_LINE, -(SP)	0874 0876 0877
	0000v	CF 02 50 01	2 FB 0028A CALLS 1 D0 0028F MOVL 04 00292 RET	#1, RO	0879
		50		RO	0880

; Routine Size: 662 bytes, Routine Base: \$CODE\$ + 0102

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AE
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14-Sep-1984 11:52:32
                                                                                                          VAX-11 Bliss-32 V4.0-742 [ACLEDT.SRC]AEDSUBR.B32;1
AEDSSUBR
V04-000
   433
435
436
437
438
439
                   0881
                             GLOBAL ROUTINE AED_SEGCOMBINE (POSITION, DIRECTION) =
                   0882
                             ! ++
                   0884
                               FUNCTIONAL DESCRIPTION:
                   0885
                   0886
0887
                                      This routine takes two line segments and combines them into one large segment. If the resulting combined segment is larger than
   440
                   0888
                   0889
                                       the page width, it is split up into two segments.
                   0890
                   0891
                               CALLING SEQUENCE:
                   0892
0893
   AED_SEGCOMBINE (ARG1, ARG2)
                   0894
0895
                               INPUT PARAMETERS:
                                      ARG1: address of the cell containing the desired buffer position ARG2: 1 = combine current line with next line
                   0896
                   0897
                                              0 = combine current line with previous line
                   0898
                   0899
                               IMPLICIT INPUTS:
                   0900
                   0901
                               OUTPUT PARAMETERS:
                   0902
                                      ARG1: address of the cell to contain the buffer position
                   0903
                   0904
                               IMPLICIT OUTPUTS:
                   0905
                                      none
                   0906
   459
                   0907
                               ROUTINE VALUE:
   460
                   0908
                                      none
   461
                   0909
   462
                   0910
                               SIDE EFFECTS:
                   0911
                   0912
0913
   464
   465
                   0914
   466
   467
                   0915
                            BEGIN
                   0916
0917
   468
   469
                            BIND
                   0918
                                      SEGMENT_SIZE
                                                         = AED_T_CURLINE[LINE_W_SIZE] : WORD;
   471
                   0919
   472
                   0920
                            LOCAL
                   0921
                                      OUTPUT DESC
                                                          : $BBLOCK [DSC$C_S_BLN],
                                                                                                   Output line descr
                   0922
0923
                                      NEW TEXT LINE
PREV_LINE
   474
                                                            REF $BBLOCK,
                                                                                         Addr of new segment
   475
                                                            REF $BBLOCK.
                                                                                         Addr of previous segment
   476
                                       COMBINED_LINE
                                                            REF $BBLOCK,
                                                                                         Addr of
                                                                                                   combined segment
                                      REMOVED_CINE
                   0925
                                                            REF SBBLOCK:
                                                                                         Addr of line removed
   478
                   0926
   479
                   0927
                             ! Initialize any necessary items.
                   0928
   480
                   0929
   481
                            CH$FILL (O, DSC$C_S_BLN, OUTPUT_DESC);
   482
                   0931
                               Determine whether anything can be combined based upon the direction
                   0932
   484
                              of the combination attempt.
   485
                          2 IF .D
2 THEN
   486
487
                   0934
                            IF .DIRECTION
                   0935
                   0936
0937
   488
   489
                                  IF .AED_T_CURLINE[LINE_L_FLINK] EQLA AFD_Q_LINETABLE[LINE_L_FLINK]
```

```
THEN
491
                       0939
492
493
                       0940
                                                   SIGNAL (AED$_NOCOMBINE);
                                                   RETURN 1;
                       0942
494
                                                   END:
495
                                                  .AED_T_CURLINE[LINE_V_ENDACE]
                       0944
496
497
                                                   BEGIN
                                                   NEW_TEXT_LINE = .AED T_CURLINE[LINE_L_FLINK];
IF .AED T_CURLINE[LINE_V REPLACE]
THEN NEW_TEXT_LINE = .NEW_TEXT_LINE[LINE_L_FLINK];
.NEW_TEXT_LINE[LINE_V_BEGINACE]
                       0946
0947
498
499
                       0948
500
501
                       0949
502
503
                       0950
                       0951
                                            THEN
                       0952
504
505
                                                   SIGNAL (AED$_NOCOMBINE);
506
                       0954
                                                   RETURN 1;
507
                       0955
                                                   END:
                       0956
0957
508
                                            PREV_LINE = AED_REPSEGMENT_();
                                            NEW_TEXT_LINE = . PREV_LINE[LINE_L_FLINK];
509
510
                       0958
                                            END'
511
                       0959
                                     ELSE
512
                       0960
                                            IF .AED_T_CURLINE[LINE_L_BLINK] EQLA AED_Q_LINETABLE[LINE_L_FLINK] OR .AED_T_CURLINE[LINE_V_BEGINACE]
                       0961
                       0962
514
515
                                            THEN
                       0964
516
517
                                                   SIGNAL (AED$_NOCOMBINE);
                       0966
0967
518
                                                   RETURN 1;
519
                                                   END:
                                            NEW_TEXT_LINE = AED_REPSEGMENT_();
5223
5223
523
523
523
526
527
529
530
                       0968
                       0969
                                            PREV_LINE = .NEW_TEXT_LINE(LINE_L_BLINK);
                       0970
                                            END:
                       0971
                      0972
0973
                                     ! Combine the two segments.
                                     AED_L_STATUS = ALLOCATE (.PREV_LINE[LINE w_SIZE] +
.NEW_TEXT_LINE[LINE_w_SIZE] +
.SBYTEOFFSET (LINE_T_TEXT), COMBINED_LINE);
                      0974
                   P 0975
                       0976
0977
                                     IF NOT .AED_L_STATUS
                       0978
                                     THEN
531
                       0979
                                            BEGIN
532
533
                       0980
                                            SIGNAL (.AED_L_STATUS);
                       0981
                                            RETURN 0;
                       0982
0983
534
                                            END:
535
                                     .POSITION = .PREV_LINE[LINE_W_SIZE];
COMBINED_LINE[LINE_W_SIZE] = .PREV_LINE[LINE_W_SIZE] + .NEW_TEXT_LINE[LINE_W_SIZE];
CH$COPY T.PREV_LINE[CINE_W_SIZE], PREV_LINE[CINE_T_TEXT],
.NEW_TEXT_LINE[CINE_W_SIZE], NEW_TEXT_LINE[LINE_T_TEXT],
536
                       0984
537
                       0985
538
                       0986
539
                       0987
                       0988
540
                                    .COMBINED_LINE[LINE_W_SIZE], COMBINED_LINE[LINE_T_TEXT]);

IF .PREV_LINE[LINE_V_BEGINACE] THEN COMBINED_LINE[LINE_V_BEGINACE] = 1;

IF .NEW_TEXT_LINE[LINE_V_ENDACE] THEN COMBINED_LINE[LINE_V_ENDACE] = 1;

COMBINED_LINE[LINE_L_BINACE] = .PREV_LINE[LINE_L_BINACE];

COMBINED_LINE[LINE_B_FIELDST] = .PREV_LINE[LINE_B_FIELDST];

INSQUE (COMBINED_LINE[LINE_L_FLINK], .PREV_LINE[LINE_L_BLINK]);
541
                       0989
                       0990
                       0991
                       0992
0993
545
```

```
AE1
```

Page

```
H 11
                                                                                                                                  15-Sep-1984 23:59:16
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AEDSSUBR
                                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742 [ACLEDT.SRC]AEDSUBR.B32;1
V04-000
                                               AED_COPSEGMENT (.COMBINED_LINE);
INSQUE (AED_T_CURLINE[LINE L_FLINK], .COMBINED_LINE[LINE L_BLINK]);
IF .AED_L_FIRSTLINE EQL .PREV_LINE THEN AED_L_BIRSTLINE = AED_T_CURLINE;
IF .AED_L_BEGINLINE EQL .NEW_TEXT_LINE THEN AED_L_BEGINLINE EQL .NEW_TEXT_LINE
IF .AED_L_BEGINLINE = AED_T_CURLINE;
IF .AED_L_BEGINLINE = AED_T_CURLINE;
REMQUE (PREV_LINE[LINE L_FCINK], REMOVED_LINE);
DEALLOCATE (.REMOVED_LINE[LINE_W_SIZE] + $BYTEOFFSET (LINE_T_TEXT),
REMQUE (MEW_TEXT_LINE[LINE_L_FLINK], REMOVED_LINE);
DEALLOCATE (.REMOVED_LINE[LINE_L_FLINK], REMOVED_LINE);
IF .COMBINED_LINE[LINE_W_SIZE] + $BYTEOFFSET (LINE_T_TEXT),
IF .COMBINED_LINE[LINE_W_SIZE] GTR .AED_L_PAGEWIDTH
     0996
                                0997
                                0998
                                0999
                                1000
                                1001
                            P 1002
1003
                                1004
                            P 1005
                                1006
1007
1008
1009
1010
                                                 IF .COMBINED_LINE[LINE_W_SIZE] GTR .AED_L_PAGEWIDTH
     560
561
562
563
                                                THEN
                                                        AED_SEGSPLIT (%REF (.AED_L_PAGEWIDTH - 1), 0, 1, 1);
AED_POSITION (AED_T_CURLINE);
OUTPUT_DESC[DSC$W_LENGTH] = .AED_T_CURLINE[LINE_W_SIZE];
OUTPUT_DESC[DSC$A_POINTER] = AED_T_CURLINE[LINE_T_TEXT];
                                1011 1012 1013
     564
565
                                                        AED_SET_CURSOR (.AED_B LINE, 1);
AED_PUTOUTPUT (OUTPUT_DESC);
     566
567
568
                                1014
                                                        SCRSERASE LINE (.AED B LINE, .AED T CURLINE[LINE W SIZE] + 1);

NEW TEXT [INE = .$BB[OCK [.AED T CURLINE[LINE L FLINK], LINE_L FLINK];

OUTPUT DESC[DSC$W LENGTH] = .NEW TEXT LINE[LINE W SIZE];

OUTPUT DESC[DSC$A POINTER] = NEW TEXT LINE[LINE_T TEXT];

AED SET CURSOR (.AED B LINE + 1, 1);

AED PUTOUTPUT (OUTPUT DESC);
                                1016
1017
1018
1019
1020
1021
1023
1025
1026
1027
1028
1029
     569
570
571
573
574
576
577
                                                         SCRTERASE_LINE (.AED_B_LINE + 1, .NEW_TEXT_LINE[LINE_W_SIZE] + 1);
                                                ELSE
     578
579
                                                        AED_POSITION (AED_T_CURLINE);
     580
                                                    Since the combined lines fit on one line, it will be necessary to shift
     581
                                                    all of the lines after the combined line up one. This is done by either
                                1030
     582
                                                    scrolling down and repainting the first part of the display or repainting
     583
                                1031
                                                ! from the current position to the end of the display (or the end of the ACL).
                                1032
     584
     585
                                                         IF .AED_B_LINE LEG 10
                                1034
     586
                                                         THEN
     587
                                1035
                                                                BEGIN
     588
                                1036
                                                                AED_SET_CURSOR (20,1);
SCRSUP_SCROLL ();
                                                                                                                                  ! **** TEMP ****
     589
                                1037
                                                                NEW TEXT LINE = .AED L BEGINLINE;
INCR J FROM 1 TO .AED_B_LINE
     590
                                1038
     591
                                1039
     592
593
                                1040
                                                                 00
                                1041
                                1042
     594
                                                                         OUTPUT_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
OUTPUT_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
     595
     596
597
                                1044
                                                                         AED_SET_CURSOR (.J. 1):
                                1045
                                                                         AED_PUTOUTPUT (OUTPUT_DESC):
                                                                         SCRTERASE_LINE (.J, .OUTPUT_DESCEDSCOW_LENGTH] + 1);
      598
                                1046
                                1047
                                                                         NEW_TEXT_CINE = .NEW_TEXT_LINECLINE_L_FLINK];
      599
                                1048
      600
                                                                         END:
```

601

602

1049

1050

1051

END

BEGIN

ELSE

```
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AED$SUBR
                                                                                                                               VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                   Page 22 (5)
V04-000
                                                                                                                               [ACLEDT.SRC]AEDSUBR.B32:1
                      1052
1053
1054
                                              IF .AED L FLAGS[AED V ENDACL]
THEN NEW TEXT LINE = AED T CURLINE
ELSE NEW TEXT LINE = .AED T CURLINE[LINE_L FLINK];
    604
    606
                       1055
                                              INCR J FROM .AED_B_LINE TO 20
    607
                       1056
1057
    608
    609
    610
                       1058
                                                       .NEW_TEXT_LINE EQLA AED_Q_LINETABLE[LINE_L_FLINK]
    611
                       1059
                                                    THEN
    612
                       1060
                       1061
                                                          IF .J LSS 20 THEN SCRSERASE_PAGE (.J, 1);
                       1062
1063
1064
1065
                                                          EXITLOOP:
    614
    615
                                                          END:
                                                   OUTPUT_DESC[DSC$W_LENGTH] = .NEW_TEXT_LINE[LINE_W_SIZE];
OUTPUT_DESC[DSC$A_POINTER] = NEW_TEXT_LINE[LINE_T_TEXT];
AED_SET_CURSOR (.J. 1);
    616
                      1066
1067
1068
1069
    618
                                                   AED_PUTOUTPUT (OUTPUT DESC);
SCRSERASE LINE (.J. .OUTPUT DESC[DSC$W_LENGTH] + 1);
NEW_TEXT_CINE = .NEW_TEXT_LINE(LINE_L_FLINK);
    619
    620
621
623
623
625
                       1070
                                                    END:
                       1071
                                              END.
                      1072
                                        END:
                                  AED_B_COLUMN = ..POSITION + 1;
    626
                       1074
                                  AED_SET_CURSOR (.AED_B_LINE, .AED_B_COLUMN);
    627
                       1075
    628
                       1076
                                  RETURN 1:
                       1077
    629
    630
                       1078
                               1 END:
                                                                                                        ! End of routine AED_SEGCOMBINE
                                                                                               SEGMENT_SIZE=
                                                                                                                            AED_T_CURLINE+8
                                                                               OFFC 00000
                                                                                                                      AED_SEGCOMBINE, Save R2,R3,R4,R5,R6,R7,R8,-
                                                                                                                                                                                         0881
                                                                                                           .ENTRY
                                                                                                                      R9,R10,R11
                                                                                                           SUBLZ
                                                                                                                      #20, SP
                                                                                  C2 00002
                                                                                                                                                                                         0929
               08
                                                                            00
                                                                                  ŽČ
                                                                                      00005
                                    90
                                                        6Ē
                                                                                                           MOVC5
                                                                                                                      #0, (SP), #0, #8, OUTPUT_DESC
                                                                                       0000A
                                                                            AE
                                                        68
50
50
                                                                            AC
CF
CF
                                                                                                                                                                                         0934
0937
                                                                     80
                                                                                                                      DIRECTION, 6$
AED_Q_LINETABLE, RO
                                                                                      0000C
                                                                                                           BLBC
                                                                                      00010
                                                                  0000
                                                                                  9E
                                                                                                           MOVAB
                                                                  0000
                                                                                  D1
                                                                                      00015
                                                                                                           CMPL
                                                                                                                      AED_T_CURLINE, RO
                                                                            09
                                                                                                           BNEQ
                                                                                      0001A
                                                                                                                                                                                         0940
                                                                                      0001C
                                    70
                                              0000
                                                        CF
                                                                                                           BBS
                                                                                                                      #3, AED_L_FLAGS, 85
                                                                                      00022
00025 1$:
                                                                                                           BRW
                                                                                                                      #1, AED T CURLINE+10, 3$
AED T CORCINE, NEW TEXT LINE
#3, AED T CURLINE+TO, 2$
(NEW TEXT LINE), NEW TEXT LINE
10(NEW TEXT LINE), 5$
#3, AED_L_FEAGS, 4$
                                                                                                                                                                                         0943
                                    12
                                              0000
                                                                            01
                                                                                  ĒŌ
                                                                                                           BBS
                                                                                                                                                                                         0946
0947
                                                                            ČF
03
                                                                  0000
                                                                                  DO
                                                                                      0005B
                                                                                                           MOVL
                                                        CF
58
31
                                    03
                                              0000
                                                                                  E1
                                                                                      00030
                                                                                                           BBC
                                                                                                                                                                                         0948
                                                                                      00036
                                                                                  DQ
                                                                                                           MOVL
                                                                            68
                                                                                  E9
E1
                                                                                      00039 2$:
0003<u>0</u> 3%:
                                                                            A8
03
                                                                     0A
                                                                                                           BLBC
                                                                                                                                                                                         0953
                                              0000'
                                                        CF
                                                                                                           BBC
                                    16
                                                                            01
                                                                                      00043
                                                                                  DD
                                                                                                           PUSHL
                                                                                  DD
                                                                                      00045
                                                                                                           PUSHL
                                                                                      00047
                                                                                  FB
                                                                                                           CALLS
                                                                                                                           SCRSERASE_PAGE
                                        0000000G
                                                                                      0004E
00050
                                                                                                           PUSHL
                                                                                  00
                                                                                  DD
                                                                                                           PUSHL
                                        0000000G
                                                                                  FB
                                                                                       00052
                                                                                                           CALLS
                                                                                                                            SCR$SET_CURSOR
                                                                                       00059 48:
                                                             0000000G
                                                                                  DD
                                                                                                           PUSHL
                                                                                                                      WAEDS_NOCOMBINE
```

JAR VO4

AED\$SUBR V04-000		J 11 15-Sep-1984 23:59:16
	000000000 00 4F 0000' CF 0000V CF 57	01 FB 0005F
	58 50 0000' 50 0000'	CF 9E 0007B 6\$: MOVAB AED_Q_LINETABLE, RO : 0961 CF D1 00080
	16 0000' CF 0000'	03 E1 0008C 7\$: BBC #3, AED_L_FLAGS, 9\$ 01 DD 00092 8\$: PUSHL #1 15 DD 00094 PUSHL #21 02 FB 00096 CALLS #2, SCR\$ERASE_PAGE 01 DD 0009D PUSHL #1
	000000006 00 000000006 00 11 0000 CF	15 DD 0009F PUSHL #21 02 FB 000A1 CALLS #2, SCR\$SET_CURSOR 8F DD 000A8 9\$: PUSHL #AED\$ NOCOMBINE 01 FB 000AE CALLS #1, LIB\$SIGNAL 03 F1 000R5 BRC #3 AED FLAGS 11\$
00000000 8F 0000°	7E 0000' 7E 0000' 7E 0000' 000000000*	CF 9A 000C0 MOVZBL AED_B_LINE, -(SP) 02 FB 000C5 CALLS #2, STR\$SET CURSOR 8F D5 000CC 11\$: TSTL # <aed\$_nocombine&7> 16 13 000D2 BEQL 12\$</aed\$_nocombine&7>
00000004 87 0000	0000° CF 0000000G	09 18 000DF BGEQ 12\$; 8F DO 000E1 MOVL MAED\$_NOCOMBINE, AED_L_WORSTERR ; 02ED 31 000EA 12\$: BRW 39\$; 0966
	57 04 04 59 08 50 08 59 52 14 04 AE	A8 DO 000F5 MOVL 4(NEW TEXT LINE), PREV_LINE : 0969 AF 9F 000F9 14\$+ PUSHAR COMBINED LINE : 0976
	04 AE 04 04 04 07	A9 9E 00107 MOVAB 20(R9), R2 52 D0 0010B MOVL R2, 4(SP) AE 9F 0010F PUSHAB 4(SP) 02 FB 00112 CALLS #2, LIB\$GET VM 50 D0 00119 MOVL R0 VM STATUS
52	00 6E 0000' CF 5E 0000'	00 2C 0011F MOVES WO, (SP), WO, R2, aCOMBINED_LINE BE 00124 56 DO 00126 15\$: MOVL VM_STATUS, AED_L_STATUS CF E8 0012B BLBS AED_L_STATUS, T9\$ 9977
	16 0000° CF	15 DD 00138 PUSHL #21 02 FB 0013A CALLS #2, SCR\$ERASE_PAGE 01 DD 00141 PUSHL #1 15 DD 00143 PUSHL #21
	00000000G 00 11 0000 CF	15 DD 00143 PUSHL #21 02 FB 00145 CALLS #2, SCR\$SET_CURSOR CF DD 0014C 16\$: PUSHL AED_L_STATUS 01 FB 00150 CALLS #1, LIB\$SIGNAL 03 E1 00157 BBC #3, AED_L_FLAGS, 17\$

							19	(11 5-Sep- 4-Sep-	-1984 23:59 -1984 11:52	:16	ge 24 (5)
			000000006	7E 7E 00 50	0000' (F = 2 F O	93 00173	17\$:	MOVZBL MOVZBL CALLS MOVL BITB	AED_B_COLUMN, -(SP) AED_B_LINE, -(SP) #2, STR\$SET_CURSOR AED_L_STATUS, RO RO, #7	
51 51	0000'	50 CF		03 03	1 0 0	0	13 00176 EF 00178 ED 0017D		BEQL Extzv CMPZV	18\$ #0, #3, R0, R1	
-			0000	CF	Ç	5	18 00184 00 00186		BGEQ Movl	18% RO, AED_L_WORSTERR	
			04	BC 56	025 08	7	31 0018B 3C 0018E	18 \$: 19 \$:	BRW MOVZWL	40\$ 8(PREV_LINE), aposition	: 0981
			08	A6 6F	5	E 7	DO 00193 BO 00197 3C 0019B		MOVL Movzwl	COMBINÊD LÎNÊ, RÓ R9, 8(RÓ) R(PREV LINE) (SP)	0985
				A6 6E 5B 5A 59 A7	08 A	8	3C 0019F 3C 001A3		MOVŽWL MOVŽWL	R9, 8(R6) 8(PREV_LINE), (SP) 8(NEW_TEXT_LINE), R11 8(R6), R10 20(R6), R9	0987
5A		00	14	59 A7	14 A	6 E	9E 001A7 2C 001AB		MOVAB MOVC5	20(R6), R9 (SP), 20(PREV_LINE), #0, R10, (R9)	
5A		00	14	59 5A A8	() 6 6	9 DEEB	001B1 18 001B2 C0 001B4 C2 001B7 2C 001BA		BGEQ ADDL2 SUBL2 MOVC5	20\$ (SP), R9 (SP), R10 R11, 20(NEW_TEXT_LINE), #0, R10, (R9)	
			0.4	04	0A A	7	001C0 E9 001C1	20\$:	BLBC	10(PREV_LINE), 21\$	0990
		04	0A 0A 0A	04 A6 A8 A6	O O	_	E9 001C1 88 001C5 E1 001C9 88 001CE	21\$:	81582 880 81582	#1, 10(R6) #1, 10(NEW_TEXT_LINE), 22\$ #2, 10(R6)	0991
			0A 0C 10 04	A6 A6		7	00 00102 90 00107	22\$:	MOVL MOVB	#1, 10(NEW_TEXT_LINE), 22\$ #2, 10(R6) 12(PREV_LINE), 12(R6) 16(PREV_LINE), 16(R6) (R6), 24(PREV_LINE) COMPINED LINE P2	0992
			04	B7 52	04 A	6 E	OE 001DC DO 001E0		MOTE	COMBINED_LINE, NE	0994
			0000v 04	CF B2 57	0000; 0	2 1 F 7	DD 001E4 FB 001E6 OE 001EB D1 001F1		PUSHL CALLS INSQUE CMPL BNEQ	R2 #1, AED_COPSEGMENT AED_T_CURLINE, 24(R2) AED_L_FIRSTLINE, PREV_LINE 23\$	0996 0997
			0000	CF 58		F	12 001F6 9E 001F8 D1 001FF	23\$:	MOVAB CMPL	AED_T_CURLINE, AED_L_FIRSTLINE AED_L_LASTLINE, NEW_TEXT_LINE	0998
			0000	CF 57	0000. 0	F	12 00204 9E 00206 D1 0020D 13 00212	24\$:	BNEQ MOVAB CMPL BEQL	24\$ AED_T_CURLINE, AED_L_LASTLINE AED_L_BEGINLINE, PREV_LINE 25\$	0999
				58	0000' č	F 7	01 00214 12 00219		CMPL BNEQ	AÉD_L_BEGINLINE, NEW_TEXT_LINE	
			0000 ' 80	CF AE	0000,	F 7	9E 0021B	25 \$: 26 \$:	MOVAB	AED T_CURLINE, AED_L_BEGINLINE (PREV_LINE) REMOVED_LINE	1000
			0/	50	OC A	E	9F 00226 00 00229 3C 00220		PUSHAB MOVL	REMOVED_LINE REMOVED_LINE, RO	1003
			04 04	AE AE		0 4 F	CO 00232		MOVZWL ADDL2 Pushab	REMOVED_LINÉ REMOVED_LINÉ, RO 8(RO), 4(SP) #20, 4(SP) 4(SP)	
			00000000G 08	00 AE 50	6	285	9F 00236 FB 00239 0F 00240 9F 00244 D0 00247		CALLS REMQUE PUSHAB MOVL	#2, LIB\$FREE_VM (NEW_TEXT_LINE), REMOVED_LINE REMOVED_LINE REMOVED_LINE, RO	1004 1006

AED\$SUBR V04-000	Makeyan Ab, Balle-To-read ver-	L 11 15-Sep-1984 23:59:16	Page 25 (5)
04 04 00000000G 0000° CF 08 A0	AE 08 AC 14 00 00 00 00 00 00 00 00 00 00 00 00 00	9F 00254 PUSHAB 4(SP) FB 00257 CALLS #2, LIB\$FREE_VM D0 0025E MOVL COMBINED_LINE, R0 ED 00262 CMPZV #0, #16, 8(R0), AED_L_PAGEWIDTH 14 0026A BGTR 27\$ 31 0026C BRW 28\$	1007
OC AE 0000' FAE6 0000V 0C 10	CF OC AE OCOO' CF	CLRL -(SP) C3 00275 SUBL3 #1, AED_L_PAGEWIDTH, 12(SP) 9F 0027C PUSHAB 12(SP) FB 0027F CALLS #4, AED_SEGSPLIT 9F 00284 PUSHAB AED_T_CURLINE FB 00288 CALLS #1, AED_POSITION B0 0028D MOVW AED_T_CURLINE+8, OUTPUT_DESC 9E 00293 MOVAB AED_T_CURLINE+20, OUTPUT_DESC+4	1011 1012 1013 1014
0000v 0000G	7E 0000' CI CF 0C AI CF 0000' CI	9A 0029B MOVZBL AED_B_LINE, -(SP) FB 002AO CALLS #2, AED_SET_CURSOR 9F 002A5 PUSHAB OUTPUT DESC FB 002AB CALLS #1, AED_PUTOUTPUT 3C 002AD MOVZWL AED_T_CURLINE+8, -(SP) D6 002B2 INCL (SP)	1015
00000000G 0C 10	7E 0000' CI 00 02 58 0000' DI AE 08 AE AE 14 AE	9A 002B4 MOVZBL AED_B_LINE, -(SP) FB 002B9 CALLS #2, SCR\$ERASE_LINE D0 002C0 MOVL @AED_T_CURLINE, NEW_TEXT_LINE B0 002C5 MOVW 8(NEW_TEXT_LINE), OUTPUT_DESC 9E 002CA MOVAB 20(R8), OUTPUT_DESC+4 DD 002CF PUSHL #1	1017 1018 1019 1020
0000v 0000G	OC AE CF 01 7E 08 AE	9A 002D1 MOVZBL AED_B_LINE, -(SP) D6 002D6 INCL (SP) FB 002D8 CALLS #2, AED_SET_CURSOR 9F 002DD PUSHAB OUTPUT_BESC FB 002E0 CALLS #1, AED_PUTOUTPUT 3C 002E5 MOVZWL 8(NEW_TEXT_LINE), -(SP) D6 002E9 INCL (SP) 9A 002EB MOVZBL AED_B_LINE, -(SP)	1021 1022
000000006	00 02	D6 002F0 INCL (SP) T FB 002F2 CALLS #2, SCR\$ERASE_LINE 11 002F9 BRB 31\$	1007
0000v	OA 0000' CF	FB 002FF CALLS #1, AED_POSITION 91 00304 CMPB AED_B_LINE, #10 1A 00309 BGTRU 32\$	1026
00000000 00000000G	CF 02 00 00 00 00 00 00 00 00 00 00 00 00	DD 0030B PUSHL #1 DD 0030D PUSHL #20	1036 1037 1038 1039
0C 10	AE 08 A8 AE 14 A8	04 00325	1042 1043 1044

AEC VO4

AED\$SUBR V04-000		14-Sep-1984 11:52:32 LACLEDT.SRCJAEDSUBR.832;1	age (26
0000v 0000G	CF OC 7E OC	PUSHL J CALLS #2, AED SET_CURSOR AE 9F 0033C PUSHAB OUTPUT DESC CALLS #1, AED PUTOUTPUT AE 3C 00344 MOVZWL OUTPUT_DESC, -(SP) AE 3C 00348 INCL (SP)	1045
0000000G CF 07 0000°	CF (AE 3C 00344	1047 1039 1033 1052 1053
	58 0000' 0 52 0000'	CF DO 00369 338: MOVL AED_T_CURLINE, NEW_TEXT_LINE CF 9A 0036E 348: MOVZBL AED_B_LINE, J 52 D7 00373 DECL J 49 11 00375 BRB 37\$	1054 1055
	50 14	CF 9E 00377 35%: MOVAB AED_Q_LINETABLE, RO 58 D1 0037C	1058
00000000G 0C 10	00 (AE 08 AE 14	52 DD 00388 PUSHL J 02 FB 0038A CALLS #2, SCR\$ERASE_PAGE 31 11 00391 BRB 38\$ A8 B0 00393 36\$: MOVW 8(NEW_TEXT_LINE), OUTPUT_DESC A8 9E 00398 MOVAB 20(R8), OUTPUT_DESC+4 01 DD 0039D PUSHL #1	1060 1064 1065 1066
0000v 0000G	CF OC /	DD 0039F PUSHL J CALLS #2, AED_SET_CURSOR AE 9F 003A6 PUSHAB OUTPUT DESC CALLS #1, AED_PUTOUTPUT AE 3C 003AE MOVZWL OUTPUT_DESC, -(SP) CE D6 003B2 INCL (SP) COURSON CALLS #1, AED_PUTOUTPUT CE D6 003B2 INCL (SP) CE D7 003B4 PUSHL J	1067 1068
00000000G 0000° CF 04	52 BC 0000' (7E 0000' (CALLS #2, SCRSERASE_LINE MOVL (NEW_TEXT_LINE), NEW_TEXT_LINE 14 F3 003C0 37\$: AOBLEQ #20, J, 35\$ 15 81 003C4 38\$: ADDB3 #1, aPOSITION, AED_B_COLUMN CF 9A 003CB MOVZBL AED_B_COLUMN, -(SP) CF 9A 003DO MOVZBL AED_B_LINE, -(SP)	1069 1055 1073 1074
0000v	50	02 FB 003D5	1076 1078

; Routine Size: 993 bytes. Routine Base: \$CODE\$ + 0398

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N 11
15-Sep-1984 23:59:16
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AED$SUBR
                                                                                                                                    VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                                 27
(6)
                                                                                                                                                                                          Page
V04-000
                                                                                                                                    [ACLEDT.SRC]AEDSUBR.B32:1
                        1079
    GLOBAL ROUTINE AED_COPSEGMENT (SEGMENT_ADDR) =
                        1080
                        1081
                                    1++
                        1082
                                      FUNCTIONAL DESCRIPTION:
                        1084
1085
1086
1087
1088
1089
1090
                                                This routine copies the specified line segment to the current
                                                line working storage area.
                                       CALLING SEQUENCE:
                                                AED_COPSEGMENT (ARG1)
                                       INPUT PARAMETERS:
                        1092
                                                ARG1: address of the desired line segment
                        1094
                                       IMPLICIT IMPUTS:
                        1095
                                                AED_T_CURLINE: current line working storage AED_Q_LINETABLE: line segment list head
    648
                        1096
1097
    650
    651
653
654
656
657
658
659
                        1098
                                       OUTPUT PARAMETERS:
                        1099
                                                none
                        1100
                        1101
                                       IMPLICIT OUTPUTS:
                        1102
                                                none
                        1104
                                       ROUTINE VALUE:
                                                none
                        1106
    660
                                       SIDE EFFECTS:
    661
                        1108
                                                none
                        1109
    662
664
665
666
667
668
670
                       1110
1111
1112
1113
1114
1115
                                    BEGIN
                                    MAP
                                                SEGMENT_ADDR
                                                                        : REF $BBLOCK;
                       1116
1117
1118
1119
1120
1121
1123
1124
1125
                                   IF .SEGMENT_ADDR NEQA AED_Q_LINETABLE
THEN CH$MOVE ($BYTEOFFSET(LINE_T_TEXT), .SEGMENT_ADDR, AED_T_CUI
CH$MOVE (.SEGMENT_ADDR[LINE_W_SIZE], SEGMENT_ADDR[LINE_T_TEXT]);
AED_T_CURLINE[LINE_T_TEXT]);
AED_T_CURLINE[CINE_V_REPLACE] = 1;
    671
                                                                                               .SEGMENT_ADDR, AED_T_CURLINE);
    672
673
    674
675
    676
677
                                    RETURN 1:
    678
                                   END:
                                                                                                            ! End of routine AED_COPSEGMENT
                                                                                  0070 00000
                                                                                                                          AED_COPSEGMENT, Save R2,R3,R4,R5,R6
SEGMENT_ADDR, R6
                                                                                                                                                                                                1079
                                                                                                               .ENTRY
                                                           56
50
50
                                                                                     DŎ
                                                                                          00002
                                                                                                                                                                                                1117
                                                                                                               MOVL
                                                                                                                          AED Q LINETABLE, RO
RO, RO
1$
                                                                                     9Ĕ
                                                                     0000
                                                                                CF
                                                                                          00006
                                                                                                               MOVAB
                                                                                     01 0000B
                                                                                56
                                                                                                               CMPL
                                                                                                               BEQL
```

AEC VO4

000

; Routine Size: 39 bytes, Routine Base: \$CODE\$ + 0779

0(

V

0(

```
Page 29 AE VC
```

```
12
                                                                                                          15-Sep-1984 23:59:16
14-Sep-1984 11:52:32
AED$SUBR
V04-000
                                                                                                                                                  VAX-11 Bliss-32 V4.0-742 [ACLEDT.SRC]ALDSUBR.B32;1
    680
681
682
683
684
685
                          1126
1128
1129
1130
1133
1133
1133
1137
                                        GLOBAL ROUTINE AED_REPSEGMENT =
                                    1
                                           FUNCTIONAL DESCRIPTION:
    686
687
                                                     This routine replaces the specified segment with the new one given.
                                           CALLING SEQUENCE:
     688
    689
                                                     AED_REPSEGMENT ()
    690
691
692
693
694
695
                                           INPUT PARAMETERS:
                          1138
                                                     none
                          1140
                                           IMPLICIT IMPUTS:
                                                     AED_L_STATUS: global return status
AED_T_CURLINE: segment working storage
AED_L_FIRSTLINE: address of first segment of ACE
AED_L_LASTLINE: address of last segment of ACE
AED_L_BEGINLINE: address of first line of display
                           1142
    696
697
                          1144
     698
     699
                          1146
     700
                                           OUTPUT PARAMETERS:
     701
    702
703
                           1148
                                                     ARG1: total size of all segments
                           1149
     704
705
                           1150
                                           IMPLICIT OUTPUTS:
                           1151
                                                     none
                          1152
    706
707
                                           ROUTINE VALUE:
                           1154
     708
                                                     none
     709
                          1155
                          1156
    710
                                           SIDE EFFECTS:
     711
                                                     none
                          1158
    712
713
     714
                          1160
     715
                          1161
                                       BEGIN
                          1162
    716
717
                                       BIND
     718
                           1164
                                                     SEGMENT_SIZE
                                                                                = AED_T_CURLINE[LINE_W_SIZE] : WORD;
     719
                           1165
                          1166
     720
721
723
724
726
727
731
733
735
736
                                        LOCAL
                                                     NEW_TEXT_LINE
REMOVED_CINE
                                                                                : REF $BBLOCK,
                                                                                                                        ! Address of new segment
                                                                                : REF $BBLOCK:
                           1168
                                                                                                                        ! Address of segment removed
                       1169
P 1170
                                        AED_L_STATUS = ALLOCATE (.SEGMENT_SIZE + $BYTEOFFSET (LINE_T_TEXT),
                           1171
                                                                                 NEW_TEXT_LINE);
                           1172
1173
1174
1175
                                        IF_NOT .AED_L_STATUS
                                        THEN
                                               BEGIN
                                                         (.AED_L_STATUS);
                           1176
1177
1178
1179
                                              RETURN 0:
                                              END;
                                    CH$MOVE (.SEGMENT_SIZE + $BYTEOFFSET (LINE_T_TEXT),

AED_T_CURLINE, .NEW_TEXT_LINE);

IF .SEGMENT_SIZE EQL O THEN NEW_TEXT_LINE[LINE_V_DUMMY] = 1;

INSQUE (NEW_TEXT_LINE[LINE_L_FLINK], AED_T_CURLINE[LINE_L_FLINK]);

REMQUE (AED_T_CURLINE[LINE_L_FLINK], REMOVED_LINE);
                           1180
                           1181
```

```
15-Sep-1984 23:59:16
14-Sep-1984 11:52:32
AED$SUBR
                                                                                                                                                       VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                                                                    Page
V04-000
                                                                                                                                                       [ACLEDT.SRC]AEDSUBR.B32:1
                                        AED W TOTALSIZE = .AED W TOTALSIZE + .SEGMENT SIZE;
CHSFICL (0, 512 + $BYTEOFFSET (LINE T TEXT), AED_T_CURLINE);
IF .AED L BEGINLINE EQLA AED T CURLINE
THEN AED C BEGINLINE = .NEW TEXT LINE;
IF .AED C FIRSTLINE = .NEW TEXT LINE;
IF .AED C CASTLINE = .NEW TEXT LINE;
IF .AED C CASTLINE EQLA AED T CURLINE
THEN AED C LASTLINE = .NEW TEXT LINE;
IF .NEW_TEXT_LINECLINE_V_REPLACE]
THEN
    737
738
739
                           1183
1184
1185
1186
1187
     740
    741
742
743
                           1188
1189
                           1190
1191
1192
1193
     744
     746
                                         THEN
                                               NEW TEXT_LINE[LINE V REPLACE] = 0;

REMQUE (TNEW TEXT_CINE[LINE L FLINK], REMOVED_LINE);

AED W_TOTALSIZE = .AED W_TOTALSIZE - .REMOVED_LINE[LINE_W_SIZE];

DEACLOCATE (.REMOVED_LINE[LINE_W_SIZE] +

$BYTEOFFSET (LINE_T_TEXT),
     748
                           1194
     749
                           1195
    750
751
752
753
754
755
756
757
                           1196
                          1197
                           1198
                           1199
                                                                    REMOVED_LINE);
                           1200
                                                END:
                           1201
                           1202
                                         RETURN .NEW_TEXT_LINE;
     758
                           1204
                                        END:
                                                                                                                           ! End of routine AED_REPSEGMENT
                                                                                                                 SEGMENT_SIZE=
                                                                                                                                                   AED_T_CURLINE+8
                                                                                              01FC 00000
                                                                                                                                            AED_REPSEGMENT, Save R2,R3,R4,R5,R6,R7,R8
                                                                                                                                                                                                                        : 1126
                                                                                                                               .ENTRY
                                                                                                 9E
                                                                  58
57
                                                                        0000000G
                                                                                           00
                                                                                                                                            SCRSSET_CURSOR, R8
                                                                                                      00002
                                                                                                                               MOVAB
                                                                                                                                            AED_T_CURLINE, R7
#12, SP
                                                                                           ČĚ
                                                                               0000
                                                                                                 9Ē
                                                                                                                              MOVAB
SUBL 2
                                                                                                      00009
                                                                                                 ĊŽ
                                                                  5E
                                                                                           ŌC
                                                                                                      0000E
                                                                                                                                            NEW TEXT LINE
SEGMENT SIZE, 4(SP)
#20, 4(SP)
                                                                                          ĂĚ
A7
                                                                                                 9F
                                                                                                                               PUSHAB
                                                                                                                                                                                                                           1171
                                                                                                      00011
                                                                                  08
                                                                                                 3C
                                                                                                                              MOVZWL
ADDL2
                                                                                                      00014
                                                                  AĒ
                                                                                           14
                                                                                                 CO
                                                                                                      00019
                                                                                          AE
02
50
                                                                                  04
                                                                                                 9F
                                                                                                      0001D
                                                                                                                               PUSHAB
                                                                                                                                            4(SP)
                                                                                                                                            #2, LIBSGET VM
                                                0000000G
                                                                                                 FB
                                                                                                      00020
                                                                                                                               CALLS
                                                                   56
                                                                                                 DO
                                                                                                                                            RO. VM_STATUS
                                                                                                      00027
                                                                                                                               MOVL
                                                                  0E
50
50
                                                                                           56
A7
                                                                                                 ĔŠ
                                                                                                                                            VM STATUS, 15
                                                                                                      0002A
                                                                                                                              BLBC
                                                                                                                                            SEGMENT_SIZE, RO
#20, RO
                                                                                                      0002D
                                                                                  80
                                                                                                                              MOVZWL
                                                                                                 CÓ
                                                                                                                              ADDL2
MOVC5
                                                                                                      00031
                   50
                                           00
                                                                  6E
                                                                                           00
                                                                                                 2C
                                                                                                      00034
                                                                                                                                            #O, (SP), #O, RO, aNEW_TEXT_LINE
                                                                                           BE
56
A7
                                                                                                       00039
                                                                                                                                            VM_STATUS, AED_L_STATUS
AED_L_STATUS, 5$
#3, AED_L_FLAGS, 2$
                                                                                                 DO
                                                                                                      0003B 1$:
                                                                                                                              MOVL
                                                          DC
                                                                                                                                                                                                                          1173
                                                                                  DC
                                                                                                 E8
                                                                                                      0003F
                                                                                                                              BLBS
                                                                                           03
                                                                                                 ĒĪ
                                           12
                                                       FF50
                                                                                                      00043
                                                                                                                              BBC
                                                                                           01
                                                                                                 DD 00049
                                                                                                                               PUSHL
                                                                                           15
02
01
                                                                                                 DD
                                                                                                      0004B
                                                                                                                               PUSHL
                                                                                                                                            #2, SCRSERASE_PAGE
                                                0000000G
                                                                  00
                                                                                                 FB
                                                                                                      0004D
                                                                                                                               CALLS
                                                                                                      00054
                                                                                                                               PUSHL
                                                                                                 DD
                                                                                           15
02
A7
                                                                                                                                            #21
#2,
                                                                                                 DD
                                                                                                      00056
                                                                                                                               PUSHL
                                                                                                                                           #2. SCR$SET_CURSOR
AED_L_STATUS
#1. LIB$SIGNAL
                                                                                                      00058
                                                                                                                               CALLS
                                                                   68
                                                                                                 FB
                                                                                                 DD
                                                                                                      0005B 2$:
                                                                                                                               PUSHL
                                                                                  DC
                                                0000000G
                                                                  00
C7
7E
7E
                                                                                           01
                                                                                                      0005E
00065
                                                                                                 FB
                                                                                                                               CALLS
                                                                                                 £1
                                                                                           03
C7
                                                                                                                                            #3, AED_L FLAGS, 3$
AED_B_COLOMN, -(SP)
                                                      FF50
                                                                                                                               BBC
                                                                                                      0006B
                                                                                                                               MOVZBL
                                                                               FF 74
                                                                                           Č7
                                                                                                  94
                                                                                                      00070
                                                                                                                               MOVZBL
                                                                                                                                            AED_B_LINE, -(SP)
```

AE V(

age		(3 7	1
:				
	•	•	7	,
:	1	1	7	8
	1	1	7	
	1	1	8	0
	1	1111	8888	1
	1111	1	88	3
	1	1	8	5
:	11	11	88	6 7
	i	i	88	9
;	11	11	9	0
:				
:	1	1	999	6
ė	1	1	٥	Ω

AED\$SUBR V04-000									1	12 -Sep-1 -Sep-1	1984 23:59: 1984 11:52:	:16	Page 31 (7)
	51 51	FF64	50 C7	FF64	68 50 07 03 03	DC	02 A7 50 13 00 05 50	FD933FD80	00075 00078 0007C 0007F 00081 00086 0008D 0008F		EXTZV CMPZV BGEQ MOVL	W2. SCR\$SET_CURSOR AED_L_STATUS, RO RO. W7 4\$ W0. W3, R0, R1 W0. W3, AED_L_WORSTERR, R1 4\$ RO. AED_L_WORSTERR	
			66		50 50 56 67	08 04 08	08E A7 14 AE 50 A7 04	31 CO D2 B1	00094 00097 0009B 0009E 000A2 000A6 000A9	4 \$: 5 \$:	BRW MOVZWL ADDL2 MOVL MOVC3 TSTW	11\$ SEGMENT_SIZE, RO #20, RO NEW_TEXT_LINE, R6 RO, AED_T_CURLINE, (R6) SEGMENT_SIZE 6\$	1176 1178 1179 1180
0214	8F		00	0A 08 0214	A6 67 AE C7 6E	08	04 66 67 A7 00 67	88 0E 0F A 0 2C	000AF 000B2 000B6 000BC 000C3	6\$:		#4, 10(R6) (R6), AED_T_CURLINE AED_T_CURLINE, REMOVED_LINE SEGMENT_SIZE, AED_W_TOTALSIZE #0, (SP), #0, #532, AED_T_CURLINE	1181 1182 1183 1184
				98	50 50 A7 50 50	98 04 90	67 05 AE 67 A7	D1 12 D9 D1 12	000D2 000D5 000D9	7\$:	MOVAB CMPL BNEQ MOVL MOVAB CMPL BNEQ	AED_T_CURLINE, RO AED_L_BEGINLINE, RO 7\$ NEW_TEXT_LINE, AED_L_BEGINLINE AED_T_CURLINE, RO AED_L_FIRSTLINE, RO 8\$	1185 1186 1187
				90	A7 50 50 A7 50	04 94 04 04	AE 67 A7 05 AE 03	D1 12 D0	000DB 000E0 000E3 000E7 000E9	98:	MOVL MOVAB CMPL BNEQ MOVL MOVL	NEW_TEXT_LINE, AED_L_FIRSTLINE AED_T_CURLINE, RO AED_L_LASTLINE, RO 9\$ NEW_TEXT_LINE, AED_L_LASTLINE NEW_TEXT_LINE, RO #3, 10(RO), 10\$	1188 1189 1190 1191
			29	0A 0A 08 0214	A0 A0 AE 50 C7	00 08 08 08	08 R0	OF	000F2 000F7 000FB 00100 00104 0010A		BICBS	#5, 10(R0), 10\$ #8, 10(R0) a0(R0), REMOVED_LINE REMOVED_LINE, RU 8(R0), AED W_TOTALSIZE REMOVED_LINE 8(R0), 4(SP) #20, 4(SP) 4(SP)	1194 1195 1196 1199
				04 04 00000000G	AE AE 00 50	04 04	14 AE 02 AE 50	0 F B O O O O	00112 00116 00119 00120 00124 00125		MOVL RET CLRL	#20, 4(SP) 4(SP) #2, LIB\$FREE_VM NEW_TEXT_LINE, RO RO	1202 1204
: Routine S	Size:	296 by	tes.	Routine	Base:	\$CODE\$	+ 07	04 7 A 0	00127		RET		;

; Routine Size: 296 bytes, Routine Base: \$CODE\$ + 07A0

? ! Traverse the line segment table looking for the selected line segment and ? ! the current first line of the display. This will determine if any scrolling

815

816

1260

Page 32 (8)

```
817
818
                  is needed and what the direction will be. If the selected line occurs before
                             ! the first line of the display, it will be necessary to scroll down. If the ! selected line occurs after the first line, it will be necessary to scroll up.
819
                             NEXT_TEXT_LINE = .AED_Q_LINETABLE[LINE_L_FLINK];
                             POS_FLAGS[POS_BEGIN_SEER] = 0;
                             UNTIL .NEXT_TEXT_LINE EQL .LINE_ADDRESS
                                   IF .NEXT_TEXT_LINE EQL .AED_L_BEGINLINE
                                   THEN
830
                                        POS_FLAGS[POS_BEGIN_SEEN] = 1;
EXITLOOP;
831
832
833
                                        END:
                                   NEXT_TEXT_LINE = .NEXT_TEXT_LINE[LINE_L_FLINK];
834
835
                                  END:
                  1280
                  1281
1282
1283
1284
1285
1286
836
                             NEXT_TEXT_LINE = .AED_L_BEGINLINE;
837
838
                             IF .POS_FLAGS[POS_BEGIN_SEEN]
839
                             THEN
840
                                   BEGIN
                                                                                               ! Move forward/scroll up
841
                                   UNTIL .NEXT_TEXT_LINE EQL .LINE_ADDRESS
842
843
                                   DO
                  1288
                                        NEXT TEXT_LINE = .NEXT_TEXT_LINE[LINE_L_FLINK];
IF .AED_B_LINE LSS 20
THEN AED_B_LINE = .AED_B_LINE + 1
                  1289
844
                  1290
1291
1292
1293
845
846
847
848
                                             AED_SET_CURSOR (20, 1);
SCRSUP_SCROLL ();
849
                  1294
                                                                                               ! **** TEMP ****
                  1295
850
                                             AED_L_BEGINLINE = .AED_L_BEGINLINE[LINE_L_FLINK];
AED_SET_CURSOR (20, 1);
851
                  1296
852
853
                  1297
                                             OUTPUT_DESCEDSC$W_LENGTH] = .NEXT_TEXT_LINE[LINE_W_SIZE];
OUTPUT_DESCEDSC$A_POINTER] = NEXT_TEXT_LINE[LINE_T_TEXT];
                  1298
                  1299
854
855
                  1300
                                              AED_PUTOUTPUT (OUTPUT_DESC);
856
                  1301
                                             END:
                  1302
857
                                        END:
858
                                  END
859
                  1304
                             ELSE
                  1305
1306
1307
860
                                                                                               ! Move backward/scroll down
861
                                   UNTIL .NEXT_TEXT_LINE EQL .LINE_ADDRESS
862
863
                                   DO
                  1308
                                        NEXT_TEXT_LINE = .NEXT_TEXT_LINE[LINE_L_BLINK];
AED_SET_CORSOR (1, 1);
SCR$DOWN_SCROLL ();
                  1309
864
865
                  1310
                                                                                               ! *** TEMP ***
                  1311
866
                                        SCRSERASE PAGE (21, 1);
AED_SET_CURSOR (1, 1);
                  1312
867
868
                                        OUTPUT DESCIDENT LENGTH] = .NEXT_TEXT_LINE[LINE_W_SIZE];
OUTPUT DESCIDENT = NEXT_TEXT_LINE[LINE_T_TEXT];
                  1314
869
                  1315
870
                  1316
1317
1318
871
                                        AED_PUTOUTPUT (OUTPUT_DESC);
                                   AED_L_BEGINLINE = .NEXT_TEXT_LINE;
```

Page 34 (8)

RETURN;

! End of routine AED_POSITION

	54 53	0000y	0(CF CF 08	01C 9E 9E C2	00000 20000 70000		.ENTRY MOVAB MOVAB	AED_POSITION, Save R2,R3,R4 AED_SET_CURSOR, R4 AED_L_BEGINLINE, R3 #8, SP #1, AED_B_LINE	:	1205
DC	54 53 5E A3 50 50	04	01 63 AC	90 00 01	00013 00016		SUBL2 MOVB MOVL CMPL	LINE_ADDRESS, RO		1257 1258
04	52 51 AC	E8	26 A3	01	0001C 00020 00023 1	s :	BEQL MOVL BICB2 CMPL	AED_Q_LINETABLE, NEXT_TEXT_LINE #1, POS_FLAGS NEXT_TEXT_LINE, LINE_ADDRESS	:	1266 1267 1269
	50 51		05050006E55576A	13 D1 12 88	00029 0002C 0002E		BEQL CMPL BNEQ BISB2	3\$ NEXT_TEXT_LINE, RO 2\$ #1, POS_FLAGS	:	1272 1275
	52 52		05 62 EB 50	11 D0 11 D0	00036	?\$: 3\$:	BRB MOVL BRB MOVL	3\$ (NEXT_TEXT_LINE), NEXT_TEXT_LINE 1\$ RO, NEXT_TEXT_LINE	:	1274 1278 1269 1281 1283
04	52 3E AC 52		51 52 77	E9 D1 13	0003B 0003E 49 00042 59		BLBC CMPL BEQL MOVL	POS_FLAGS, 7\$ NEXT_TEXT_LINE, LINE_ADDRESS 9\$ (NEXT_TEXT_LINE), NEXT_TEXT_LINE		1283 1286 1289
	52 14	DC DC	A3 05 A3 EC	91 1E 96	00047 0004B 0004D		CMPB BGEQU INCB	AED_B_LINE, #20 6\$ AED_B_LINE		1290 1291
00000000G	64 00 73		01 14 02 00 93	DD FB FB DO	00054 00056 00059 00060 00063	\$:	BRB PUSHL PUSHL CALLS CALLS MOVL PUSHL	#1 #20 #2. AED_SET_CURSOR #0. SCR\$UP_SCROLL BAED_L_BEGINLINE, AED_L_BEGINLINE		1294 1295 1296 1297
04	64 6E AE	08 14	14 02 A2 A2 5E	DD	00065 00067 0006A 0006E		PUSHL CALLS MOVW MOVAB PUSHL	#20 #2, AED_SET_CURSOR 8(NEXT_TEXT_LINE), OUTPUT_DESC 20(R2), OUTPUT_DESC+4 SP	:	1298 1299 1300
00006	CF		- 10	FB 11	00075 0007A		CALLS BRB	#1, AED_PUTOUTPUT	:	
04	AC		25 36 A2	ρį	0007C 7	\$:	CMPL	NEXT_TEXT_LINE, LINE_ADDRESS	•	1286 1306
	52	04	A2 01 01	13 D0 DD	00086		BEQL MOVL PUSHL PUSHL	8\$ 4(NEXT_TEXT_LINE), NEXT_TEXT_LINE #1 #1		1309 1310
000000006	64 00		01 01 02 00	FB	0008A		CALLS	#2, AED_SET_CURSOR #0, SCR\$DOWN_SCROLL		1311

AED\$SUBR V04-000				1	I 12 5-Sep-1984 23:5 4-Sep-1984 11:5	9:16 2:32	VAX-11 Bliss-32 V4.0-742 [ACLEDT.SRC]AEDSUBR.B32;1	Page 35 (8)
0000000G	00		01 15 02 01	DD 00094 DD 00096 FB 00098 DD 0009F	5 PUSHĒ	#1 #21 #1	SCR\$ERASE_PAGE	; 1312 ; 1313
 04	64 6E AE	08 14	01 02 A2 5E 01	DD 000A1 FB 000A3 B0 000A6 9E 000A6 DD 000A6	S CALLS MOVW MOVAB	#1 #2, 8(N 20(SP	AED_SET_CURSOR EXT_TEXT_LINE), OUTPUT_DESC R2), OUTPUT_DESC+4	1314 1315 1316
 0000G	CF 63		01 C4 52	FB 000B1 11 000B6 00 000B8	CALLS BRB B8: MOVL	#1, 7 \$	AED_PUTOUTPUT T_TEXT_LINE, AED_L_BEGINLINE	1304
	_		_					

; Routine Size: 188 bytes, Routine Base: \$CODE\$ + 08C8

```
'04-000
   380
   8.1
  88<sub>4</sub>
883
   884
   885
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   887
   888
   889
   890
   291
   893
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   895
   896
                        1340
   897
                        1341
   898
   899
                        1344
   900
   901
   9C2
903
                        1346
   904
                        1348
   905
                        1349
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   907
                        1351
                       1352
1353
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   909
   910
                        1355
   911
                        1356
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1359
  912
  914
                        1360
1361
1362
1363
1364
1365
1366
  916
917
   918
                                   BEGIN
   919
   920
                                   LOCAL
   921
922
   923
   924
925
                        1368
                        1369
   926
927
                        1370
   928
929
   930
   931
   932
   933
   934
   935
```

!++

IF .TOTAL_SIZE EQL O THEN RETURN 1;

```
GLOBAL ROUTINE AED_UPDATEACL (TOTAL_SIZE) =
  FUNCTIONAL DESCRIPTION:
          This routine takes all the line segments from AED_L_FIRSTLINE
          to AED_L_LASTLINE, mashes them together, converts the resulting
          text ACE to a binary form, and then updates the in core copy
          of the object's ACL.
  CALLING SEQUENCE:
          AED_UPDATEACL (ARG1)
  INPUT PARAMETERS:
          ARG1: total size of the new ACE text
  IMPLICIT INPUTS:
          AED_L_FIRSTLINE: address of the first list segment
          AED_L_LASTLINE: address of the last line segment
  OUTPUT PARAMETERS:
         none
  IMPLICIT OUTPUTS:
         none
  ROUTINE VALUE:
         1 if success
         error status otherwise
  SIDE EFFECTS:
         The in core copy of the object's ACL is updated. The object's actual ACL is left untouched. It gets updated at the end of the
         editing session.
         LOCAL STATUS,
APPEND INDEX,
CURRENT_LINE
NEW_ACE
NEW_ACE_SIZE
ACE_DEST
ACE_TEXT_DESC
CHAR_PROCESSED
                                                             Local routine exit status
                                                             Index for combining segments
                                REF $BBLOCK.
                                                             Address of current segment
                                $BBLOCK [ACLSS_READACL]
                                                                       Storage for converted ACE
                               BYTE,
$BBLOCK [DSC$C_S_BLN],
$BBLOCK [DSC$C_S_BLN],
                                                                       new binary ACE
Binary ACE descriptor
Text ACE descriptor
                                                             Size of
                                                             Chars processed by ACL parser
                               BLOCKVECTOR [3, ITM$S_ITEM, BYTE],
! ACL context
         ATR_ARGLIST
ACL_CONTEXT;
                                                                               ! ACL item list
  If the total size of the ACE text segments is zero, determine if it is
 necessary to delete the corresponding binary ACE.
```

```
AED$SUBR
V04-000
   937
938
939
                    1381
1383
13885
13867
13887
13887
13890
                                 Concatenate all of the text line segments together, and convert to a
                                binary ACE. Any errors are signaled as syntax errors.
                              AED_L_LASTLINE[LINE_V_ENDACE] = 1;
LOCAL_STATUS = ALLOCATE (.TOTAL_SIZE, AED_A_ACLBUFFER);
IF_NOT .LOCAL_STATUS
                              THEN
                                    BEGIN
                                    SIGNAL (.LOCAL_STATUS);
RETURN .LOCAL_STATUS;
   945
   946
947
                    1391
                    1392
1393
                              CURRENT_LINE = .AED_L_FIRSTLINE[LINE_L_BLINK];
APPEND_INDEX = 0;
   948
   950
951
                    1394
1395
                                   952
953
                    1396
1397
   954
                    1398
   955
                    1399
   956
                    1400
                              UNTIL .CURRENT_LINE EQL .AED_L_LASTLINE;
ACE_DESC[DSC$W_LENGTH] = ACL$S_READACL;
ACE_DESC[DSC$A_POINTER] = NEW_ACE;
   957
                    1401
                    1402
   958
   959
                              ACE_TEXT_DESC[DSC$W_LENGTH] = .TOTAL_SIZE;
ACE_TEXT_DESC[DSC$A_POINTER] = .AED_A_ACLBUFFER;
                    1404
   960
                    1405
   961
                              LOCAL_STATUS = $PARSE_ACL (ACLSTR = ACE_TEXT_DESC, ACLENT = ACE_DESC,
   962
963
                  P 1406
                  P 1407
   964
                    1408
                                                                 ERRPOS = CHAR_PROCESSED);
   965
                    1409
                              IF NOT .LOCAL_STATUS
                    1410
                              THEN
   966
                    1411
   967
                                   BEGIN
                    1412
                                   AED L FLAGS[AED V ACERROR] = 1;
SIGNAL (AED$_SYNTAX, 2, .TOTAL_SIZE - .CHAR_PROCESSED
   968
   969
970
                    1414
                                                                  AED_A_ACLBUFFER[.CHAR_PROCESSED, 0, 8, 0],
   971
                                                                   .LOTAL_STATUS, 0);
                    1416
                                   RETURN AED$_SYNTAX;
   973
                    1418
                              NEW_ACE_SIZE = .NEW_ACE[ACE$B_SIZE];
                                                                                 ' In case of a duplicate
   975
   976
                    1420
                                 Check for a hidden ACE. Since they are application specific, the ACL
                    1421
1422
1423
1424
1425
   977
                                 editor is not allowed to touch them.
   978
   979
                              IF .NEW_ACE[ACE$V_HIDDEN]
   980
                              THEN
   981
                    1426
                                    AED L FLAGS[AED V ACERROR] = 1;
SIGNAL (AED$_NONIDDEN);
   982
   983
                                    RETURN AEDS_NOHIDDEN;
   984
    985
    986
    987
                     1431
                               ! Check for directory default ACEs. If the object is not a directory file,
                    1432
    988
                               ! note the error.
    989
                     1434
    990
                               IF .NEW_ACE[ACE$V_DEFAULT] AND NOT .AED_L_FLAGS[AED_V_DIRECTORY]
    991
                               THEN
   992
                                    AED_L_FLAGS[AED_V_ACERROR] = 1;
```

```
15-Sep-1984 23:59:16
14-Sep-1984 11:52:32
AED$SUBR
                                                                                                                    VAX-11 Bliss-32 V4.0-742
V04-000
                                                                                                                    [ACLEDT.SRC]AEDSUBR.B32:1
                     1438
1439
1440
                                     SIGNAL (AED$ NODEFAULT):
   995
                                     RETURN AEDS NODEFAULT;
   996
                                     END:
                     1441
   997
   998
                                  Check to see if the I am adding an already existing ACE. If so, warn the
   999
                                  user about the duplicate. This means that the text display actually
  1000
                     1444
                                 reflects the true state of the ACL.
                     1445
  1001
                     1446
  1002
                               CURRENT_LINE = .AED_Q_LINETABLE[LINE_L_FLINK];
  1003
                               UNTIL . TURRENT_LINE EQLA AED_Q_LINETABCECLINE_L_FLINK]
                     1448
  1004
  1005
                                     BEGIN
                                    IF .CURPENT_LINE[LINE_V_BEGINACE]
AND .CURRENT_LINE[LINE_L_BINACE] NEQ O
THEN IF CHSEQL (.NEW ACE_SIZE, NEW ACE,
.SBB[OCK[.CURRENT_LINE[LINE_L_BINACE], ACESB_SIZE],
.CURRENT_LINE[LINE_L_BINACE], O)
AND .CURRENT_LINE NEQ .AED_L_FIRSTLINE
                     1450
  1006
                     1451
  1007
                     1452
  1008
  1009
                     1454
  1010
  1011
                     1456
  1012
                                           THEN
                                                BEGIN
                                                SIGNAL (AED$_DUPLICATE);
DEALLOCATE (.new_ace_size, aed_l_firstline[line_l_binace]);
RETURN AED$_DUPLICATE;
                     1458
1459
  1014
  1015
  1016
                     1460
  1017
                     1461
                                                 END:
                     1462
  1018
                                     CURRENT_LINE = .CURRENT_LINE[LINE_L_FLINK];
  1019
                                     END:
                     1464
  1020
                     1465
  1021
                               ! If there is an ACE already, deallocate it.
  1022
                     1466
                               IF .AED_L_FIRSTLINE[LINE_L_BINACE] NEQ O
THEN DEALLOCATE (.$BBLOCK[.AED_L_FIRSTLINE[LINE_L_BINACE], ACE$B_SIZE],
  1023
                     1467
  1024
                    1468
  1025
                     1469
                                                      AED_L_FIRSTLINEELINE_L_BINACE]);
  1026
                     1470
                     1471
  1027
                               ! So far, so good. Allocate storage for the binary ACE, and save it.
                     1472
  1028
                               LOCAL_STATUS = ALLOCATE (.NEW_ACE_SIZE, AED_L_FIRSTLINE[LINE_L_BINACE]); IF_NOT .LOCAL_STATUS
  1029
                     1474
1475
1476
1477
  1030
  1031
                               THEN
  1032
                                     BEGIN
  1033
                                    SIGNAL (.LOCAL_STATUS);
RETURN .LOCAL_STATUS;
  1034
                     1478
  1035
                     1479
  1036
                     1480
                               CH$MOVE (.NEW_ACE_SIZE, NEW_ACE, .AED_L_FIRSTLINE[LINE_L_BINACE]);
  1037
                     1481
                     1482
  1038
                               RETURN 1;
                                                                                              ! End of routine AED_UPDATEACL
  1039
 1040
                     1484
                               END:
                                                                                                 .EXTRN SYS$PARSE_ACL
                                                                                                           AED_UPDATEACL, Save R2,R3,R4,R5,R6,R7,R8,-R9,R10,R11
                                                                        OFFC 00000
                                                                                                                                                                     : 1324
                                                                                                 .ENTRY
                                                                          9E 00002
9E 00009
9E 0000E
                                                                     00
CF
                                                                                                           SCRSSET CURSOR, R11
AED L FEAGS, R10
-572(SP), SP
                                                   5B 00000000G
                                                                                                 MOVAB
                                                   ŠĀ
SE
                                                            0000'
                                                                                                 MOVAB
```

MOVAB

ĆE

FDC4

AE

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AET VO

AED\$SUBR V04-000									1	y 12 5-Sep- 4-Sep-	1984 23:59 1984 11:52	: 16 : 32	VAX-11 Bliss-32 V4.0-742 [ACLEDT.SRCJAEDSUBR.BJ2:1	age 40
			12		6A		03 01 15	E1 DD	000E0 000E4		BBC PUSHL	#3. #1	AED_L_FLAGS, 9\$: 1415
				0000000G	00		15 02 01	DD FB	000E6 000E8		PUSHL CALLS PUSHL PUSHL CALLS CLRL	#21 #2,	SCR\$ERASE_PAGE	
					40		15	DD	000EF 000F1		PUSHL PUSHL	#1 #21		
					6B		02 7E 59	FB D4 DD	000F3 000F6 000F8	9\$:	CLRL	#2, -(\$	SCR\$SET_CURSOR SP) SAL_STATUS	
					50	0C 6C B/	ÁÉ A40	3C 9F	000FA 000FE		MOVZWL PUSHAB	CHA	R PROCESSED, RO D A ACLBUFFER[RO] R PROCESSED, RO	
			7E		50 5 8	10	AE Sû	3C C3	00102 00106		PUSHL MOVZWL PUSHAB MOVZWL SUBL3 PUSHL	KU,	RPROCESSED, RO	
				0000000G	00	0000000G	02 8F 06 03	DD DD FB	0010A 0010C		PUSHL PUSHL CALLS	#2 #AE #6,	D\$ SYNTAX LIB\$SIGNAL	
			08	00000000	64	20	03	E1	00112 00119 00110		BBC MOVZBL	#3, AED	AED L FLAGS, 10\$ B COLOMN, -(SP)	
					7E 7E 6B	20 24	AA 02 8F	9A 9A FB	00110 00121 00125 00128 0012E 00130		MOVZBL CALLS	AED	AED_L_FLAGS, 10\$ D_B_COLOMN, -(SP) D_B_LINE, -(SP) SCR\$SET_CURSOR AED\$_SYNTAX&7>	
00000000	0.5	1/			07	00000000*	14	D5 13	00128 0012E	10\$:	CALLS TSTL BEQL CMPZV	•	· _	
00000000	8F	14	AA	14	03 AA	0000000G	00 08 8F	ED 18 00	UUISA		BGEQ MOVL	#0, 11\$	#3, AED_L_WORSTERR, # <aed\$_syntax&7> D\$_SYNTAX, AED_L_WORSTERR</aed\$_syntax&7>	
					50	00000000G	8F	D0 04	00144 0014B	11\$:	MOVL Ret	#AE	EDS_SYNTAX, RO	1416
			5A	3F	57 AE	3 C	AE 02 8F 03	90 E1 88	0014C 00150	12\$:	MÖVB BBC BISB2	#2,	J_ACE, NEW_ACE_SIZE NEW_ACE+3, 16\$	1418 1423 1426 1427
i			12		6A 6A	40	81 03 01	88 E1 DD	00159		BBC PUSHL	#3, #1	AED_L_FLAGS AED_L_FLAGS, 13\$	1227
				0000000G	00		15	DD FB	0015F		PUSHL Calls	#21 #2,		
							01 15	DD DD	00168 0016A		PUSHL PUSHL	#1 #21		
				0000000G	6B 00	0000000G	02 8F 01	FB DD FB	0016C 0016F 00175	13\$:	CALLS PUSHL CALLS	#2, #AÉ	, SCR\$SET_CURSOR D\$_NOHIDDEN , LIB\$SIGNAL	
			08	00000000	6A	20	03	E1 9A	0017C 00180		BBC MOVZBL	#3,	AFD I FLAGS, 148	
					7E 7E 6B	20 24	AA 02 8F	9A FB	00184 00188 0018B		MOVZBL CALLS TSTL	MED.	DECOLUMN, -(SP) BLINE, -(SP) SCR\$SET_CURSOR AED\$_NOHIDDEN&7>	
00000000	90	1/			07	00000000*	14	D5 13	00191	14\$:	BEQL	123		
00000000	8F	14	AA	14	03	00000000	00 08 86	ED 18 00	00190		CMPZV BGEQ MOVL	#0, 15\$	#3, AED_L_WORSTERR, # <aed\$_nohidden&7> D\$_NOHIDDEN, AED_L_WORSTERR</aed\$_nohidden&7>	
				14	50	00000000G	8F 8F	D0 04	001A7 001AE		MOVL RET	WAE	EDS_NOHIDDEN, RO	1428
			5A	02	SF AA	3F	AE 02 8F 03	É9 E0	001AF 001B3	16\$:	BLBC BBS BISB2	WE W	LACE+3, 20\$ AED_L_FLAGS+2, 20\$	1434
			12		6A 6A	40	8F 03	88 E1	001B8 001BC		BISB2 BBC PUSHL	#64 #3,	AED L FLAGS+2, 20\$, AED L FLAGS , AED L FLAGS, 17\$	1437 1438
				000000006	00		01 15 02	DD DD FB	001C2		PUSHL CALLS	#21 #2,	SCRSERASE_PAGE	

JAR

AED\$SUBR V04-000									1984 23:59 1984 11:52	: 16	VAX-11 Bliss-32 V4.0-742 Pa [ACLEDT.SRC]AEDSUBR.B32:1	~ 43
		0	00000000G	6B 000000006 00 6A 7E 20 7E 24 6B	01 15 02 8F 01 03 AA 02 8F	DDD FBD DDF FBD PARFE	001CD 001CF 001D8 001D8 001E3 001E7	17\$:	PUSHL PUSHL CALLS PUSHL CALLS BBC MOVZBL MOVZBL CALLS TSTL BEQL	#AED	SCR\$SET_CURSOR NODEFAULT LIB\$SIGNAL AED_L_FLAGS, 18\$ B_CGLOMN, -(SP) B_LINE, -(SP) SCR\$SET_CURSOR OS_NODEFAULT&7>	
00000000+	8F '	14 A	\	00000000* 03	14	D 5 13 E D		185:	TSTL BEQL CMPZV	, , •	DS_NODEFAULT&7> V3, AED_L_WORSTERR, # <aeds_nodefault&7></aeds_nodefault&7>	
			14	AA 00000000G 50 00000000G	00 08 8f 8f	18 00 00	00202	19\$:	BGEQ MOVL MOVL	195 #AED\$	NODEFAULT, AED_L_WORSTERR	1439
				56 30 50 30 50	AA 56 03	04 00 9E 01	00211 00212 00216 0021A	20 \$: 21 \$:	RET MOVL MOVAB CMPL	AED C AED C CURRE	LINETABLE, CURRENT_LINE LINETABLE, RO ENT_LINE, RO	1446 1447
				03 OA	092 A6 085 A6	31 E8 31 D5	00222 00226 00229	22 \$: 23 \$: 24 \$:	BNEQ BRW BLBS BRW TSTL	28\$	JRRENT_LINE), 24\$ JRRENT_LINE)	1450 1451
	50	0) 3c	51 50 OC AE OC	F8 57 B6 51 B6	13 9A 9A 2D	0022C 0022E 00231		BEQL MOVZBL MOVZBL CMPC5	235 NEW A 012(ACE_SIZE, R1 CURRENT_LINE), RO NEW_ACE, #0, RO, @12(CURRENT_LINE)	1452 1453 1452
			40	AA	6F 56	12 01	0023F		BNEQ CMPL	28\$ CURRE	ENT_LINE, AED_L_FIRSTLINE	1455
		13	?	6A	69 03 01	15 E1 DD	00243 00245 00249 00248		BEQL BBC PUSHL	28 \$	NED_L_FLAGS, 25\$	1458
			0000000G	00	15 02 01	18	0024B 0024D 00254		PUSHL CALLS PUSHL	#21	SCR\$ERASE_PAGE	
		01	00000000G	6B 000000006 00 6A 7E 20 7E 24	15 02 8f 01 03	DD FB DD FB E1 9A	00258 00258 00258 00261		PUSHL CALLS PUSHL CALLS	#21 #2, S #AEDS	SCR\$SET_CURSOR B_DUPLICATE .IB\$SIGNAL AED_L_FLAGS, 26\$ B_COLOMN, -(SP) B_LINE, -(SP) BCR\$SET_CURSOR O\$_DUPLICATE&7>	
				6B 00000000+	02 8F	FB 05 13	00274	26\$:	CALLS TSTL	#2, S # <aed 27\$</aed 	STR\$SET_CURSÓR O\$_DUPLICATE&7>	
00000000	8 F 1	14 A	•	03	00	ED 18	0027F 00289		CMPZV BGEQ	#0 A	/3, AED_L_WORSTERR, # <aed\$_duplicate&7></aed\$_duplicate&7>	
		7	14 40 04	AA 00000000G AA AE	8F 0C 57	D0 C1 9A	0028B 00293 00298	27\$:	MOVL ADDL3 Movzbl	#AED\$ #12, NEW_A	DUPLICATE, AED_L_WORSTERR AED_L_FIRSTLINE, =(SP) ACE_SIZE, 4(SP)	1459
			000000006	00 50 00000000	AE 02 8 F	9F FB	0029C		PUSHAB CALLS MOVL	#2, L	CE_SIZE, 4(SP) IB\$FREE_VM DUPLICATE, RO	1460
				56	66	04	002A6 002AD 002AE	28\$:	RET MOVL		RENT_LINE), CURRENT_LINE	1462

AED\$SUBR V04-000								1	C 13 5-Sep-19 4-Sep-19	984 23:59 984 11:52	: 16 y : 32 C	AX-11 Bliss-32 V4.0-742 ACLEDT.SRCJAEDSUBR.B32;1	Page	42
				50	40 00	F62 AA A0	31 00 05 13	002B1 002B4 002B8 002BB	29\$:	BRW MOVL TSTL	21\$ AED L F 12(RO) 30\$ 12(RO)	IRSTLINE, RO		1447
			04	AE	0C 0C 04	AO BO AF	9F 9A 9F	002BD 002CO		BEQL PUSHAB MOVZBL PUSHAB	a12(RU) 4(SP)	, 4(SP)		1469
		7E	000000000 40 04	00 AA AE	04	F 6 A 0 2 0 0 5 A 0 2 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	FB C1 9A	002BD 002C58 002CF 002CF 002DB 002DB 002E5 002EB	30\$:	CALLS ADDL3 MOVZBL PUSHAB	W2, LIB W12, AE NEW ACE	SFREE VM D L FIRSTLINE, -(SP) _SIZE, 4(SP)		1473
			00000000G	00 56 0E 51 50 6E	04	02 50 56	9F FB DO E9	002DB 002E2 002E5		CALLS MOVL BLBC MOVZBL	#2, LIB RO, VM VM STAT	SGET_VM STATUS US, 31\$ SIZE, R1 TRSTLINE, RO P), #0, R1, @12(R0)		
51		00			40 00	AA 00 B0	9A 00 2C	002EB 002EF 002F4		MOVL MOVC5				
		12		59 48 6A		A000693152152913AA29	D0 E8 E1 DD	002EB 002EF 002F6 002F6 002F6 003F6 0030B 0030B	31\$:	MOVL BLBS BBC PUSHL	#3, AED #1	TUS, LOCAL STATUS TATUS, 36\$ OLLFLAGS, 32\$		1274
			0000000G	00		15 02 01 15	DD FB DD	00302 00304 0030B		PUSHL CALLS PUSHL PUSHL CALLS	#21	SERASE_PAGE		
		00	00000000	6B 00		02 59 01	00	00312	328.	CALLS	#2, SCR	SSET_CURSOR TATUS SSIGNAL		
		0B		6A 7E 7E 6B 07	20 24	03 AA 02	E1 9A 9A FB	00314 0031B 0031F 00323 00327		BBC MOVZBL MOVZBL CALLS	AED_B_C AED_B_L #2, SCR	\$SIGNAL L FLAGS, 33\$ DLOMN, -(SP) INE, -(SP) \$SET_CURSOR TATUS, #7		
50 50	14	59 AA		07 03 03		11	93 13 EF ED	0032A 0032D 0032F 00334 0033A	33\$:	BITB BEQL EXTZV CMPZV	WO. W3.	LOCAL_STATUS, RO AED_L_WORSTERR, RO		
	•	,	14	AA 50		00 00 04 59 59	1111	1111		BGEQ MOVL MOVL	LOCAL_S	TATUS, AED_L_WORSTERR		1478
	0 C	в0	3 C	51 50 AE 50	40	57 AA 51 01	9A D0 28	00340 00343 00344 00347 00348	36\$:	RET MOVZBL MOVL MOVC3	NEW_ACE AED_L_F R1 NFU	SIZE, R1 TRSTLINE, RO LACE, 212(RO)		1480
		5 V	J	50		ói	00 04	00351 00354	37\$:	MOVL RET	#1, RO	PURE ALEXINAL		1482 1484

; Routine Size: 853 bytes, Routine Base: \$CODE\$ + 0984

```
D 13
15-Sep-1984 23:59:16
14-Sep-1984 11:52:32
AED$SUBR
V04-000
                                                                                                                    VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                         (10)
                                                                                                                                                                    Page
                                                                                                                    [ACLEDT.SRC]AEDSUBR.B32;1
                     1485
1486
1487
1488
1489
: 1042
: 1043
                               GLOBAL ROUTINE AED_SET_CURSOR (LINE, COLUMN) =
  1044
                               !++
  1045
  1046
                                  FUNCTIONAL DESCRIPTION:
  1047
                     1490
                     1491
                                          This routine sets the desired cursor position. As a side effect, it remembers the last position set. This is to allow screen refresh
  1048
                     1492
  1049
  1050
                                          to correctly set the cursor position after repainting the screen.
                     1494
  1051
  1052
                                  CALLING SEQUENCE:
                    1496
                                          AED_SET_CURSOR (ARG1, ARG2)
  1054
  1055
                     1498
                                  INPUT PARAMETERS:
  1056
                     1499
                                          ARG1: line to which the cursor is set
  1057
                     1500
                                          ARG2: column to which the cursor is set
  1058
                     1501
                     1502
1503
1504
1505
  1059
                                  IMPLICIT INPUTS:
  1060
                                          none
  1061
  1062
                                  OUTPUT PARAMETERS:
                     1506
1507
                                          none
  1064
                     1508
1509
1510
1511
  1065
                                  IMPLICIT OUTPUTS:
                                          AED_B_SAVE_COL: saved column position
  1066
  1067
                                          AED_B_SAVE_LIN: saves line position
  1068
                    1512
1513
1514
  1069
                                  ROUTINE VALUE:
  1070
  1071
  1072
                     1515
                                  SIDE EFFECTS:
                    1516
1517
1518
1519
1522
1522
1522
1522
1533
1533
1533
                                          none
  1074
  1075
  1076
  1077
                               BEGIN
  1078
1079
                               ! Remember the position being set.
  1080
1081
1082
1083
1084
1085
1086
1087
                               AED_B_SAVE_LIN = .LINE;
AED_B_SAVE_COL = .COLUMN;
                               ! Now, set the cursor.
                               SCR$SET_CURSOR (.LINE, .COLUMN);
                               RETURN 1;
  1089
                               END:
                                                                                               ! End of routine AED_SET_CURSOR
                                                                                                            AED_SET_CURSOR, Save nothing LINE, AED_B_SAVE_LIN
                                                                         0000 00000
                                                                                                  .ENTRY
                                                                           90
90
                                                                               00002
                                                                                                  MOVB
                                          0000
                                          0000'
                                                               Ŏ8
                                                                                                            COLUMN, AED B SAVE COL
                                                   ČF
                                                                                                  MOVB
```

V(

PSECT SUMMARY

AED_COMMON 1320 NOVEC, WRT, RD ,NOEXE,NOSHR, LCL, REL, OVR,NOPIC,ALIGN(0) \$CODE\$ 3318 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	Total	- Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32:1	18619	32	0	1000	00:01.8
_\$255\$DUA28:[SYSLIB]TPAMAC.L32:1	42	0		14	00:00.2

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: AEDSUBR/OBJ=OBJ\$: AEDSUBR MSRC\$: AEDSUBR/UPDATE=(ENH\$: AEDSUBR)

Size: 3318 code + 1320 data bytes Run Time: 00:50.5 Elapsed Time: 02:27.8 Lines/CPU Min: 1824

Run Time: 00:50.5; Elapsed Time: 02:27.8; Lines/CPU Min: 1824; Lexemes/CPU-Min: 19712; Memory Used: 319 pages; Compilation Complete

0004 AH-BT13A-SE

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